

TGAP-620-M12 Series

Industrial EN50155 IEEE 802.11 a/b/g/n wireless access point with 2x10/100/1000Base-T(X), M12 connector



Features

- Leading EN50155-compliant wireless access point for rolling stock application
- High Speed Air Connectivity: WLAN interface support up to 300 Mbps link speed
- Highly Security Capability: WEP/WPA/WPA-PSK(TKIP,AES)/ WPA2/WPA2-PSK(TKIP,AES)/802.1X Authentication supported
- Support X-Roaming < 60ms
- Support external SMA antenna installation
- Support AP/Client /Bridge /AP-Client Mode
- Support Multiple-SSID to 4 SSID
- Support MAC Filter
- Dual Gigabit Ethernet ports support Ethernet redundant mode (Recovery time < 10ms) and switch mode in M12 connector (A-coding)
- Wireless connecting status monitoring
- 1KV isolation for PoE P.D. port for TGAP-620+-M12
- Secured Management by HTTPS
- Event Warning by Syslog, Email, SNMP Trap, and Relay output
- Rigid IP-40 housing design
- Wall-mount enabled





















ORing's Transporter[™] series access point is designed for industrial and rolling stock wireless applications, such as vehicle, and railway applications. TGAP-620-M12 is a reliable 802.11 a/b/g/n WLAN Access Point with 2 Ethernet 10/100/1000 ports. It can be configured to operate in AP/Client /Bridge /AP-Client Mode. TGAP-620-M12 provides dual Ethernet ports in switch mode, so that you can use Daisy Chain to reduce the usage of Ethernet switch ports. TGAP-620-M12 provides a dust-tight connection and reverses SMA-type connectors that can install any reverse SMA-type antennas to extend communication distance. It is specifically designed for the toughest industrial environments. You are able to configure TGAP-620-M12 by WEB interface via LAN port or WLAN interface. TGAP-620-M12 can be easily adopted in almost all kinds of applications and provides the most rugged solutions for managing your network in outdoor. In addition, TGAP-620+-M12 also provides P.D.



feature on ETH2 which is fully compliant with IEEE802.3af PoE P.D. specification. Therefore, TGAP-620-M12 is one of the best communication solutions for wireless applications.

Application

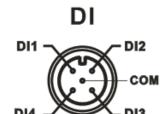
In practical operation of wireless access point, Windows utility (Open-Vision) is supported. This utility is very helpful for you to search and configure IP of access point on the industrial network.

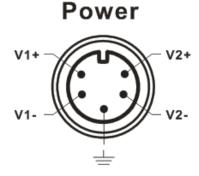
In addition, the wireless access point support various kinds of operation modes include AP/Client /Bridge /AP-Client Mode. You can build up the wireless network easily.

Pin Definition

Relay Output

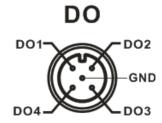




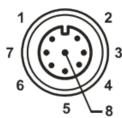


Console



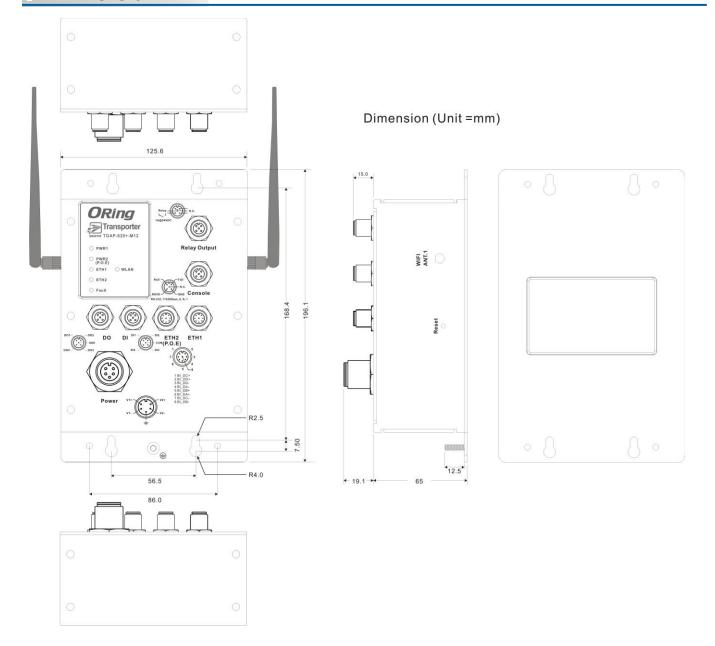


Ethernet



1 BI_DC+ 2 BI_DD+ 3 BI_DD-4 BI_DA-5 BI_DB+ 6 BI_DA+ 7 BI_DC-8 BI_DB-

Dimension



Specifications

| TGAP-620-M12 TGAP | ORing WLAN Access Point | | | |
|--|--|---|---|--|
| Dilystost Pots Dilystost Pots In M12 Auto MDUMOX (6) pin A-coding) 2 | _ | TGAP-620-M12 | TGAP-620+-M12 | |
| 10/100/1000Reset TQQ Ports in M12 | | | | |
| Auto MDI/MOIX (8-pin A-coding) 2 2(DI x 4 and D0 x 4) 1 1 1 1 1 1 1 1 1 | - | | 2/Dracont at ETH2 | |
| DIDO port in M12 (5-pin A-coding) | , , | 2 | - · | |
| DIDD port in M12 (5-pin A-coding) | / acc / 152/ 1527 (6 piii / 1 ccaiiig) | 2(DI x 4 and DO x 4): | . any compliant with 1222 002.5an 1 02 1 15) | |
| Wet Contact (ID to COM/CNID): On to 3 VDC, Off: 10 to 3 DVDC | | | | |
| No. 0 to 3VDC, Off: 10 to 3WDC Spin A coding 115200, 8, N, 1 | DIDO port in M12 (5-pin A-coding) | On: short to GND, Off: open | | |
| 115200, S, N, 1 | | | | |
| Selay port in M12 (5-pin A-coding) 1A924VDC | | On: 0 to 3VDC, Off: 10 to 30VDC | | |
| Name | · · | 115200, 8 ,N ,1 | | |
| ### WILAN Interface Operating Mode | (3-pin A-county) | | | |
| Antenna Connector | Relay port in M12 (5-pin A-coding) | 1A@24VDC | | |
| Antenna Connector | WI AN Interface | | | |
| Antenna Connector 2 x External reverse SMA-type antenna connector Radio Frequency Type OFDM, DSSS Modulation IEEE802.11b: CCK/DQFSK/DBPSK IEEE802.11m: BPSK, QPSK, 16-QAM, 64-QAM IEEE802.11m: BPSK, QPSK, 16-QAM, 64-QAM AmericAryCC: 2-412-2-42 Colft (21 channels) 5 .180-5.240 GHz (4 channels) Frequency Band 802.11b: 13,55-2.40 GHz (4 channels) 802.11b: 13,55-2.40 GHz (4 channels) 802.11b: 13,54-3,8,3 c,4,18,12,9,6 Mbps 802.11b: 10,54-48,36, c,4,18,12,9,6 Mbps 802.11a HT40: 11,54-48,36, c,4,18,12,19,6 Mbps 802.11a HT40: 11,54-54,36, c,4,18,12,19,18,18,18,19,19,18, | | | | |
| Radio Frequency Type | Operating Mode | AP/Bridge/Client/AP-Client | | |
| IEEE802.11b: CCK/DQPSK/DBPSK IEER802.11c/gc: OFDM IEEE802.11c/gc: OFDM IEEE802.11c/ | Antenna Connector | 2 x External reverse SMA-type antenna connector | | |
| Modulation IEEE802.11n/g: DFDM IEEE802.11n/g: MPSK, QPSK, 16-QAM, 64-QAM IEEE802.11n: MPSK, QPSK, 16-QAM, 64-QAM America/FCC: 2412-2-4262 GHz (11 channels) S.180-5.240 GHz & 5.745-5.825 GHz (9 channels) Europe CE/FCTS: 2412-2-472 GHz (11 channels) S.180-5.240 GHz & 4 channels) | Radio Frequency Type | OFDM, DSSS | | |
| IEEE802_L11n: BPSK, QPSK, 16-QAM, 64-QAM | | IEEE802.11b: CCK/DQPSK/DBPSK | | |
| ### America/FCC: 2.412~2.462 GHz (11 channels) 5.180~5;240 GHz & 5.745~5.25 GHz (9 channels) Europe CE/EFIS: 4.12~2.472 CHE (13 channels) 5.180~5;240 GHz (4 channels) 802.11b: 11, 5.5, 2, 1 Mbps; 802.11b: 12, 568 mb, 1.588m@54Mbps 802.11b: 1788m ± 1.588m@54Mbps 802.11g: 1688m ± 1.588m@54Mbps 802.11g: 1688m ± 1.588m@54Mbps 802.11g: 1788m ± 1.588m@54Mbps 802.11g: 1788m ± 1.588m@MCS7 802.11an HT40: 1188m ± 1.588m @MCS7 802.11an HT40: 1188m ± 1.588m @MCS7 802.11an HT40: 1188m ± 1.588m @MCS7 802.11b: 8568m ± 288m@1Mbps 802.11b: 8568m ± 288m@1Mbps 802.11b: 8568m ± 288m@1Mbps 802.11c: 1568m ± 288m@54Mbps 802.11g: 17868m ± 288m@MCS7 802.11g: HT40: 7268m ± 288m@MCS7 802.11an HT40: 7168m ± 288m@MCS7 802.11an HT40 | Modulation | IEEE802.11a/g: OFDM | | |
| S.180~5,240 GHz & 5.745~5.825 GHz (9 channels) Europe CE/ETSI: 2.412~2.472 GHz (13 channels) Europe CE/ETSI: 2.412~2.472 GHz (13 channels) S.180~5,240 GHz (2 channels) S.180~5,240 GHz (2 channels) S.21.111; 1,5.5, 2, 1 Mbps; S.21.111; 1,5.5, 3, 6, 24, 18, 12, 9, 6 Mbps S.21.111; 1,5.5, 2, 1 Mbps; S.21.111; 1,5. | | <u> </u> | | |
| Europe CE/FTSI: 2.412~2.472 GHz (13 channels) | | | He (O sharrada) | |
| S1.80 - S2.24 | Frequency Band | | HZ (9 channels) | |
| Receiver Sensitivity | | | | |
| 802.11n: up to 300Mbps | | | | |
| 802.11a: 12dBm ± 1.5dBm@54Mbps 802.11b: 17dBm ± 1.5dBm@51Mbps 802.11b: 17dBm ± 1.5dBm@54Mbps 802.11g: 15dBm ± 1.5dBm@54Mbps 802.11gn HT20: 15dBm ± 1.5dBm @MCS7 802.11gn HT20: 15dBm ± 1.5dBm @MCS7 802.11gn HT20: 12dBm ± 1.5dBm @MCS7 802.11an HT20: 12dBm ± 1.5dBm @MCS7 802.11an HT40: 11dBm ± 1.5dBm @MCS7 802.11an HT40: 11dBm ± 1.5dBm @MCS7 802.11an HT40: 12dBm ± 2dBm@54Mbps 802.11b: 15dBm # 2dBm@54Mbps 802.11g: 15dBm ± 2dBm@54Mbps 802.11g: 15dBm ± 2dBm@54Mbps 802.11gn HT20: 75dBm ± 2dBm@MCS7 802.11an HT40: 72dBm ± 2dBm@MCS7 802.11an HT40: 71dBm ± 2dBm@MCS7 802.11an HT40: | Transmission Rate | 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps | | |
| 802.11b: 17dBm ± 1.5dBm@11Mbps 802.11g: 16dBm ± 1.5dBm@054Mbps 802.11g: 17dBm ± 1.5dBm@MCS7 802.11gn HT20: 15dBm ± 1.5dBm @MCS7 802.11gn HT20: 15dBm ± 1.5dBm @MCS7 802.11gn HT20: 15dBm ± 1.5dBm @MCS7 802.11gn HT40: 14dBm ± 1.5dBm @MCS7 802.11gn HT40: 11dBm ± 1.5dBm @MCS7 802.11gn HT40: 11dBm ± 1.5dBm @MCS7 802.11g: -76dBm ± 2dBm@54Mbps 802.11g: -76dBm ± 2dBm@54Mbps 802.11g: -76dBm ± 2dBm@11Mbps 802.11gn HT20: -72dBm ± 2dBm@MCS7 802.11gn HT20: -72dBm ± 2dBm@MCS7 802.11gn HT20: -72dBm ± 2dBm@MCS7 802.11gn HT20: -74dBm ± 2dBm@MCS7 802.11gn HT30: -74dBm ± 2dBm@MCS7 80 | | 802.11n: up to 300Mbps | | |
| ### 1.5dBm ± 1.5dBm @54Mbps ### 1.5dBm @MCS7 ### 1.5dBm ## 1.5dBm @MCS7 ### 1.5dBm ## 1.5dBm @MCS7 ### 1.5dBm # 1.5dBm @MCS7 ### 1.5dBm ## 1.5dBm @MCS7 ### 1.5dBm ## 1.5dBm @MCS7 ### 1.5dBm ### 1.5dBm @MCS7 ### 1.5dBm ### 1.5dBm @MCS7 ### 1.5dBm | | • | | |
| Transmit Power 802.11gn HT20: 15dBm ± 1.5dBm @MCS7 802.11gn HT40: 14dBm ± 1.5dBm @MCS7 802.11gn HT40: 14dBm ± 1.5dBm @MCS7 802.11an HT40: 11dBm ± 1.5dBm @MCS7 802.11an HT40: 11dBm ± 1.5dBm @MCS7 802.11a: 76dBm ± 2dBm@S4Mbps 802.11b: -85dBm ± 2dBm@54Mbps 802.11g: -76dBm ± 2dBm@54Mbps 802.11g: -76dBm ± 2dBm@MCS7 802.11gn HT20:-73dBm ± 2dBm@MCS7 802.11gn HT20:-74dBm ± 2dBm@MCS7 802.11gn HT20:-74dBm ± 2dBm@MCS7 802.11gn HT20:-74dBm ± 2dBm@MCS7 802.11gn HT40:-72dBm ± 2dBm@MCS7 802.11gn HT40:-71dBm ± 2dBm@MCS7 | | • | | |
| 802.11gn HT40: 14dBm ± 1.5dBm @MCS7 | Transmit Power | | | |
| 802.11an HT40: 12dBm ± 1.5dBm @MCS7 | Transmit Fower | | | |
| 802.11a : -76dBm ± 2dBm@54Mbps 802.11b : -85dBm ± 2dBm@11Mbps 802.11g : -76dBm ± 2dBm@MCS7 802.11g HTZ0:-75dBm ± 2dBm@MCS7 802.11g HT40:-72dBm ± 2dBm@MCS7 802.11g HT40:-72dBm ± 2dBm@MCS7 802.11an HT20:-74dBm ± 2dBm@MCS7 802.11an HT40:-71dBm ± 2dBm@MCS7 802.11an HT40:-71dBm ± 2dBm@MCS7 802.11an HT40:-71dBm ± 2dBm@MCS7 802.11an HT40:-71dBm ± 2dBm@MCS7 WEP: (64-bit, 1,28-bit key) WPA/WPA2 PSK :TKIP and AES encryption (802.11i) 802.1X/RADIUS Authentication supported Wireless Security SSID broadcast disable and enable Protocol Support Protocol ARP,BOOTP, DHCP, DNS, HTTP, IP, ICMP, SNTP, TCP, UDP, RADIUS, SNMP, STP, RSTP, LED Indicators 2 x LEDs, PW1:Green for DC Power on PW2:Green for DC Power on or power by PoE 10/100/1000Base-T(X) Indicator 2 x LEDs, Green for port Link/Act WLAN LED 1 x LED, Green for WLAN Link/Act Fault 1 x LED, Red for Ethernet link down or power down indicator Fault Contact Relay Relay output to carry capacity of 1A at 24VDC(5-pin M12 A-coding) | | - | | |
| Receiver Sensitivity 802.11g : -76dBm ± 2dBm@11Mpps 802.11g : -776dBm ± 2dBm@MCS7 802.11gn HT40:-72dBm ± 2dBm@MCS7 802.11gn HT40:-72dBm ± 2dBm@MCS7 802.11an HT40:-72dBm ± 2dBm@MCS7 802.11an HT40:-71dBm ± 2dBm@MCS7 802.11an HT40:-71dBm ± 2dBm@MCS7 WEP: (64-bit ,128-bit key) WPA/WPA2 PSK : TKIP and AES encryption (802.11i) 802.1X/RADIUS Authentication supported Wireless Security SSID broadcast disable and enable Protocol Support Protocol ARP,BOOTP, DHCP, DNS, HTTP, IP, ICMP, SNTP, TCP, UDP, RADIUS, SNMP, STP, RSTP, LED Indicators 2 x LEDs, Power Indicator 2 x LEDs, PW1: Green for DC Power on PW2: Green for DC Power on or power by PoE 10/100/1000Base-T(X) Indicator 2 x LEDs, Green for WLAN Link/Act WLAN LED 1 x LED, Red for Ethernet link down or power down indicator Fault 1 x LED, Red for Ethernet link down or power down indicator Fault Contact Relay Relay output to carry capacity of 1A at 24VDC(5-pin M12 A-coding) | | 802.11an HT40: 11dBm ± 1.5dBm @MCS7 | | |
| Receiver Sensitivity 802.11g: -76dBm ± 2dBm@54Mbps 802.11gn HT20:-75dBm ± 2dBm@MCS7 802.11gn HT20:-72dBm ± 2dBm@MCS7 802.11gn HT20:-71dBm ± 2dBm@MCS7 802.11an HT20:-71dBm ± 2dBm@MCS7 802.11an HT20:-71dBm ± 2dBm@MCS7 WEP: (64-bit ,128-bit key) WPA/WPA2 PSK: TKIP and AES encryption (802.11i) 802.11x/RADIUS Authentication supported Wireless Security SSID broadcast disable and enable Protocol Support Protocol ARP,BOOTP, DHCP, DNS, HTTP, IP, ICMP, SNTP, TCP, UDP, RADIUS, SNMP, STP, RSTP, LED Indicators 2 x LEDs, | | | | |
| Receiver Sensitivity 802.11gn HT20:-75dBm ± 2dBm@MCS7 802.11gn HT40:-72dBm ± 2dBm@MCS7 802.11an HT20:-74dBm ± 2dBm@MCS7 802.11an HT40:-72dBm ± 2dBm@MCS7 802.11an HT40:-71dBm ± 2dBm@MCS7 802.11an HT40:-71dBm ± 2dBm@MCS7 WEP: (64-bit ,128-bit key) WPA/WPA2 PSK :TKIP and AES encryption (802.11i) 802.1X/RADIUS Authentication supported Wireless Security SSID broadcast disable and enable Protocol Support Protocol ARP,BOOTP, DHCP, DNS, HTTP, IP, ICMP, SNTP, TCP, UDP, RADIUS, SNMP, STP, RSTP, LED Indicators 2 x LEDs, Power Indicator PW1:Green for DC Power on PW2:Green for DC Power on or power by PoE 10/100/1000Base-T(X) Indicator 2 x LEDs, Green for port Link/Act WLAN LED 1 x LED, Green for WLAN Link/Act Fault Relay Relay output to carry capacity of 1A at 24VDC(5-pin M12 A-coding) | | | | |
| 802.11gn HT40:-72dBm ± 2dBm@MCS7 802.11an HT20:-74dBm ± 2dBm@MCS7 802.11an HT40:-71dBm ± 2dBm@MCS7 802.11an HT40:-71dBm ± 2dBm@MCS7 WEP: (64-bit, 128-bit key) WPA/WPA2 PSK :TKIP and AES encryption (802.11i) 802.1X/RADIUS Authentication supported Wireless Security SSID broadcast disable and enable Protocol Support Protocol ARP,BOOTP, DHCP, DNS, HTTP, IP, ICMP, SNTP, TCP, UDP, RADIUS, SNMP, STP, RSTP, LED Indicators 2 x LEDs, Power Indicator PW1:Green for DC Power on PW2:Green for DC Power on or power by PoE 10/100/1000Base-T(X) Indicator 2 x LEDs, Green for port Link/Act WLAN LED 1 x LED, Green for WLAN Link/Act Fault 1 x LED, Red for Ethernet link down or power down indicator Fault Contact Relay Relay output to carry capacity of 1A at 24VDC(5-pin M12 A-coding) | Receiver Sensitivity | | | |
| 802.11an HT20:-74dBm ± 2dBm@MCS7 802.11an HT40:-71dBm ± 2dBm@MCS7 WEP: (64-bit ,128-bit key) WPA/WPA2 PSK :TKIP and AES encryption (802.11i) 802.1X/RADIUS Authentication supported Wireless Security SSID broadcast disable and enable Protocol Support Protocol ARP,BOOTP, DHCP, DNS, HTTP, IP, ICMP, SNTP, TCP, UDP, RADIUS, SNMP, STP, RSTP, LED Indicators 2 x LEDs, PW1:Green for DC Power on PW2:Green for DC Power on or power by PoE 10/100/1000Base-T(X) Indicator 2 x LEDs, Green for WLAN Link/Act WLAN LED 1 x LED, Green for WLAN Link/Act Fault 1 x LED, Red for Ethernet link down or power down indicator Fault Contact Relay Relay output to carry capacity of 1A at 24VDC(5-pin M12 A-coding) | Receiver Sensitivity | | | |
| WEP: (64-bit ,128-bit key) WPA/WPA2 PSK :TKIP and AES encryption (802.11i) 802.1X/RADIUS Authentication supported Wireless Security SSID broadcast disable and enable Protocol Support Protocol ARP,BOOTP, DHCP, DNS, HTTP, IP, ICMP, SNTP, TCP, UDP, RADIUS, SNMP, STP, RSTP, LED Indicators 2 x LEDs, Power Indicator PW1: Green for DC Power on PW2: Green for DC Power on or power by PoE 10/100/1000Base-T(X) Indicator 2 x LEDs, Green for WLAN Link/Act WLAN LED 1 x LED, Green for WLAN Link/Act Fault 1 x LED, Red for Ethernet link down or power down indicator Fault Contact Relay Relay output to carry capacity of 1A at 24VDC(5-pin M12 A-coding) | | | | |
| Encryption Security WPA/WPA2 PSK :TKIP and AES encryption (802.11i) 802.1X/RADIUS Authentication supported Wireless Security SSID broadcast disable and enable Protocol Support Protocol ARP,BOOTP, DHCP, DNS, HTTP, IP, ICMP, SNTP, TCP, UDP, RADIUS, SNMP, STP, RSTP, LED Indicators 2 x LEDS, Power Indicator PW1:Green for DC Power on PW2:Green for DC Power on or power by PoE 10/100/1000Base-T(X) Indicator 2 x LEDS, Green for port Link/Act WLAN LED 1 x LED, Green for WLAN Link/Act Fault 1 x LED, Red for Ethernet link down or power down indicator Fault Contact Relay Relay output to carry capacity of 1A at 24VDC(5-pin M12 A-coding) | | 802.11an HT40:-71dBm ± 2dBm@MCS7 | | |
| 802.1X/RADIUS Authentication supported Wireless Security SSID broadcast disable and enable Protocol Support Protocol ARP,BOOTP, DHCP, DNS, HTTP, IP, ICMP, SNTP, TCP, UDP, RADIUS, SNMP, STP, RSTP, LED Indicators 2 x LEDs, Power Indicator PW1:Green for DC Power on PW2:Green for DC Power on or power by PoE 10/100/1000Base-T(X) Indicator 2 x LEDs, Green for port Link/Act WLAN LED 1 x LED, Green for WLAN Link/Act Fault 1 x LED, Red for Ethernet link down or power down indicator Fault Contact Relay Relay output to carry capacity of 1A at 24VDC(5-pin M12 A-coding) | | • | | |
| Wireless Security Protocol Support Protocol ARP,BOOTP, DHCP, DNS, HTTP, IP, ICMP, SNTP, TCP, UDP, RADIUS, SNMP, STP, RSTP, LED Indicators 2 x LEDs, Power Indicator PW1:Green for DC Power on PW2:Green for DC Power on or power by PoE 10/100/1000Base-T(X) Indicator 2 x LEDs, Green for port Link/Act WLAN LED 1 x LED, Green for WLAN Link/Act Fault 1 x LED, Red for Ethernet link down or power down indicator Fault Contact Relay Relay output to carry capacity of 1A at 24VDC(5-pin M12 A-coding) | Encryption Security | | i) | |
| Protocol Support Protocol ARP,BOOTP, DHCP, DNS, HTTP, IP, ICMP, SNTP, TCP, UDP, RADIUS, SNMP, STP, RSTP, LED Indicators 2 x LEDs, Power Indicator PW1:Green for DC Power on PW2:Green for DC Power on or power by PoE 10/100/1000Base-T(X) Indicator 2 x LEDs, Green for port Link/Act WLAN LED 1 x LED, Green for WLAN Link/Act Fault 1 x LED, Red for Ethernet link down or power down indicator Fault Contact Relay Relay output to carry capacity of 1A at 24VDC(5-pin M12 A-coding) | Wineless Consumity | | | |
| Protocol ARP,BOOTP, DHCP, DNS, HTTP, IP, ICMP, SNTP, TCP, UDP, RADIUS, SNMP, STP, RSTP, LED Indicators 2 x LEDs, Power Indicator PW1:Green for DC Power on PW2:Green for DC Power on or power by PoE 10/100/1000Base-T(X) Indicator 2 x LEDs, Green for port Link/Act WLAN LED 1 x LED, Green for WLAN Link/Act Fault 1 x LED, Red for Ethernet link down or power down indicator Fault Contact Relay Relay output to carry capacity of 1A at 24VDC(5-pin M12 A-coding) | , | Droadcast disable and enable | | |
| LED Indicators 2 x LEDs, Power Indicator PW1:Green for DC Power on PW2:Green for DC Power on or power by PoE 10/100/1000Base-T(X) Indicator 2 x LEDs, Green for port Link/Act WLAN LED 1 x LED, Green for WLAN Link/Act Fault 1 x LED, Red for Ethernet link down or power down indicator Fault Contact Relay Relay output to carry capacity of 1A at 24VDC(5-pin M12 A-coding) | Protocol Support | | | |
| 2 x LEDs, PW1:Green for DC Power on PW2:Green for DC Power on or power by PoE 10/100/1000Base-T(X) Indicator 2 x LEDs, Green for port Link/Act WLAN LED 1 x LED, Green for WLAN Link/Act Fault 1 x LED, Red for Ethernet link down or power down indicator Fault Contact Relay Relay output to carry capacity of 1A at 24VDC(5-pin M12 A-coding) | Protocol | ARP,BOOTP, DHCP, DNS, HTTP, IP, ICMP, SNTP, TC | CP, UDP, RADIUS, SNMP, STP, RSTP, | |
| PW1:Green for DC Power on PW2:Green for DC Power on or power by PoE 10/100/1000Base-T(X) Indicator 2 x LEDs, Green for port Link/Act WLAN LED 1 x LED, Green for WLAN Link/Act Fault 1 x LED, Red for Ethernet link down or power down indicator Fault Contact Relay Relay output to carry capacity of 1A at 24VDC(5-pin M12 A-coding) | LED Indicators | | | |
| PW2:Green for DC Power on or power by PoE 10/100/1000Base-T(X) Indicator 2 x LEDs, Green for port Link/Act WLAN LED 1 x LED, Green for WLAN Link/Act Fault 1 x LED, Red for Ethernet link down or power down indicator Fault Contact Relay Relay output to carry capacity of 1A at 24VDC(5-pin M12 A-coding) | | 2 x LEDs, | | |
| 10/100/1000Base-T(X) Indicator 2 x LEDs, Green for port Link/Act WLAN LED 1 x LED, Green for WLAN Link/Act Fault 1 x LED, Red for Ethernet link down or power down indicator Fault Contact Relay Relay output to carry capacity of 1A at 24VDC(5-pin M12 A-coding) | Power Indicator | | | |
| WLAN LED 1 x LED, Green for WLAN Link/Act Fault 1 x LED, Red for Ethernet link down or power down indicator Fault Contact Relay Relay output to carry capacity of 1A at 24VDC(5-pin M12 A-coding) | | PW2:Green for DC Power on or power by PoE | | |
| Fault 1 x LED, Red for Ethernet link down or power down indicator Fault Contact Relay Relay output to carry capacity of 1A at 24VDC(5-pin M12 A-coding) | 10/100/1000Base-T(X) Indicator | 2 x LEDs, Green for port Link/Act | | |
| Relay Relay output to carry capacity of 1A at 24VDC(5-pin M12 A-coding) | WLAN LED | 1 x LED, Green for WLAN Link/Act | | |
| Relay Relay output to carry capacity of 1A at 24VDC(5-pin M12 A-coding) | Fault | 1 x LED, Red for Ethernet link down or power down indicator | | |
| Relay Relay output to carry capacity of 1A at 24VDC(5-pin M12 A-coding) | Fault Contact | | | |
| | | Polary output to carry capacity of 1A at 24/DC/E == | n M12 A-coding) | |
| Power | | neigy output to carry capacity of 1A at 24VDC(5-pi | THE A-COUNTY) | |
| | Power | | | |

| Redundant Input Power | Dual Power Inputs. 12~48 VDC on 5-pin M23 connector (24 VDC Typ.) | |
|-----------------------------|--|--|
| Power Consumption (Typ.) | 8W 8.5W | |
| Overload Current Protection | Present | |
| Reverse Polarity Protection | Present | |
| Physical Characteristic | | |
| Enclosure | IP-40 | |
| Dimension (W x D x H) | 125.6(W) x 65(D) x 196.1(H) mm (4.94 x 2.55 x 7.72 inch.) | |
| Weight (g) | 955g 960g | |
| Environmental | | |
| Storage Temperature | -40 to 85°C (-40 to 185°F) | |
| Operating Temperature | -25 to 70°C (-13 to 158°F) | |
| Operating Humidity | 5 to 95% Non-condensing | |
| Regulatory approvals | | |
| EMI | FCC Part 15, CISPR (EN55022) class A, EN50155 (EN50121-3-2) | |
| EMS | EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11 | |
| Shock | IEC60068-2-27, EN61373 | |
| Free Fall | IEC60068-2-31 | |
| Vibration | IEC60068-2-6, EN61373 | |
| Rail Traffic | EN50155 | |
| Cooling | EN60068-2-1 | |
| Dry Heat | En60068-2-2 | |
| Safety | EN60950-1 | |
| Warranty | 5 years | |

Ordering Information



| Code Definition | Wireless Mode | 10/100/1000 Base-T(X) Port Number | PoE Identification |
|-----------------|---|-----------------------------------|-----------------------------------|
| Option | - 1: 802.11 b/g - 2: 802.11 a - 3: 802.11 a/b/g - 4: 802.11 b/g/n - 5: 802.11 a/n - 6: 802.11 a/b/g/n | -"2": 2 ports | -"+": PoE P.D. present at ETH2 |

| | Model Name | Description |
|--------------------|------------------|---|
| | TGAP-620-M12_US | Industrial EN50155 IEEE 802.11 a/b/g/n wireless access point with 2x10/100/1000 Base-T(X), US band |
| Available Model | TGAP-620-M12_EU | Industrial EN50155 IEEE 802.11 a/b/g/n wireless access point with 2x10/100/1000 Base-T(X), EU band |
| то | TGAP-620+-M12_US | Industrial EN50155 IEEE 802.11 a/b/g/n wireless access point with 2x10/100/1000 Base-T(X), 1-port PoE P.D, US band |
| | TGAP-620+-M12_EU | Industrial EN50155 IEEE 802.11 a/b/g/n wireless access point with 2x10/100/1000 Base-T(X), 1-port PoE P.D, EU band |

Packing List

• TGAP-620-M12 x 1

• CD x 1

• Quick Installation Guide x 1

• 2.4GHz/5GHz Antenna x 2

Optional Accessories

DR-45 series : 45 Watts power supply

DR-120 series : 120 Watts power supply

RF Antenna Base series

DR-75 series : 75 Watts power supply

WLAN RF Antenna series

• RF Cable series

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ORing:

<u>TGAP-620-M12-EU</u> <u>TGAP-620-M12-US</u> <u>TGAP-620+-M12</u> <u>TGAP-620+-M12_EU</u> <u>TGAP-620+-M12_EU</u> <u>TGAP-620+-M12_EU</u> <u>TGAP-620+-M12_US</u>