

C-PCM-24S24G

iDoor Communication Module with a MultiTech Dragonfly™ embedded cellular modem, LTE/HSPA+ Support, Dual Antennas, and AT&T and Verizon Certification for US/Canadian Networks

NEW



Features

- Communication module with iDoor technology
- Ready-to-integrate MultiTech Dragonfly™ embedded cellular modem certified by AT&T and Verizon
- Supports B2/B4/B5/B12/B13 for LTE networks
- Supports B2/B4/B5 for UMTS/HSPA+ networks
- Operating Temperature: -40 ~ 85 °C/-40 ~ 185 °F
- Supports Windows 7/8.x/10 (64 bit) and Ubuntu 18.04 operating systems

Introduction

The PCM-24 series are communication modules equipped with Advantech's iDoor technology. The C-PCM-24S24G communication modules features a MultiTech Dragonfly™ embedded cellular modem, which is a ready-to-integrate CAT 4/CAT 1/CAT M1 LTE end-device certified by AT&T and Verizon. This ensures that Advantech's system platforms satisfy U.S. and Canadian network carrier requirements as certified end-devices.

Specifications

C-PCM-24S24G-4AV-1

General	
Host Interface	PCIe mini card (USB 2.0)
Dimensions	Module: 26.8 x 30 x 12.4 mm (1.06 x 1.18 x 0.49 in) I/O plate: 81 x 19.4 x 41 mm (3.19 x 0.76 x 1.61 in)
Wireless Module	MultiTech Dragonfly™ MTQ-LNA7-B02
Category	Category 4
SIM Holder	1 x Micro SIM (3FF)
Certification	FCC, UL/cUL, PTCRB, Verizon, AT&T
Power Consumption	712mA max @ 5V _{DC}
Antenna	690 ~ 960 MHz, 1710 ~ 2700 MHz
Cable	2*5P-2.0/micro USB 5P(M) 25 cm 90D
GNSS	Available upon request
Communication	
Frequency Band	LTE-FDD: B2(1900)/B4(AWS1700)/B5(850)/B12(700)/B13(700) WCDMA: B2(1900)/B4(AWS1700)/B5(850)
Data Throughput	LTE FDD data rate (Mbps): 150 (DL)/50 (UL) HSPA data rate (Mbps): 5.7 (DL)/5.7 (UL) DC-HSDPA data rate: 42(DL) /42 (UL)
Software	
OS Support	Windows 7/8/10 and Ubuntu 18.04
Environment	
Operating Temperature	-40 ~ 85 °C (-40 ~ 185 °F)
Relative Humidity	95% RH @ 40 °C, non-condensing

C-PCM-24S24G-1A-1

General	
Host Interface	PCIe mini card (USB 2.0)
Dimensions	Module: 26.8 x 30 x 12.4 mm (1.06 x 1.18 x 0.49 in) I/O plate: 81 x 19.4 x 41 mm (3.19 x 0.76 x 1.61 in)
Wireless Module	MultiTech Dragonfly™ MTQ-LAT3-B02
Category	Category 1
SIM Holder	1 x Micro SIM (3FF)
Certification	FCC, UL/cUL, PTCRB, AT&T
Power Consumption	510mA max @ 5V _{DC}
Antenna	690 ~ 960 MHz, 1710 ~ 2700 MHz
Cable	2*5P-2.0/micro USB 5P(M) 25 cm 90D
GNSS	NA
Communication	
Frequency Band	LTE-FDD: B2(1900)/B4(AWS1700)/B5(850)/B12(700)/B13(700) WCDMA: B2(1900)/B5(850)
Data Throughput	LTE FDD data rate (Mbps): 10 (DL)/5 (UL) HSPA+ data rate: 21(DL) /5.76(UL)
Software	
OS Support	Windows 7/8/10 and Ubuntu 18.04
Environment	
Operating Temperature	-40 ~ 85 °C (-40 ~ 185 °F)
Relative Humidity	95% RH @ 40 °C, non-condensing

C-PCM-24S24G-1V-1

General	
Host Interface	PCIe mini card (USB 2.0)
Dimensions	Module: 26.8 x 30 x 12.4 mm (1.06 x 1.18 x 0.49 in) I/O plate: 81 x 19.4 x 41 mm (3.19 x 0.76 x 1.61 in)
Wireless Module	MultiTech Dragonfly™ MTQ-LVW3-B02
Category	Category 1
SIM Holder	1 x Micro SIM (3FF)
Certification	FCC, UL/cUL, Verizon
Power Consumption	450mA max @ 5V _{DC}
Antenna	690 ~ 960 MHz, 1710 ~ 2700 MHz
Cable	2*5P-2.0/micro USB 5P(M) 25 cm 90D
GNSS	NA
Communication	
Frequency Band	LTE-FDD: B2(1900)/B4(AWS1700)/B13(700)
Data Throughput	LTE FDD (Mbps): 10 (DL)/5 (UL)
Software	
OS Support	Windows 7/8/10 and Ubuntu 18.04
Environment	
Operating Temperature	-40 ~ 85 °C (-40 ~ 185 °F)
Relative Humidity	95% RH @ 40 °C, non-condensing

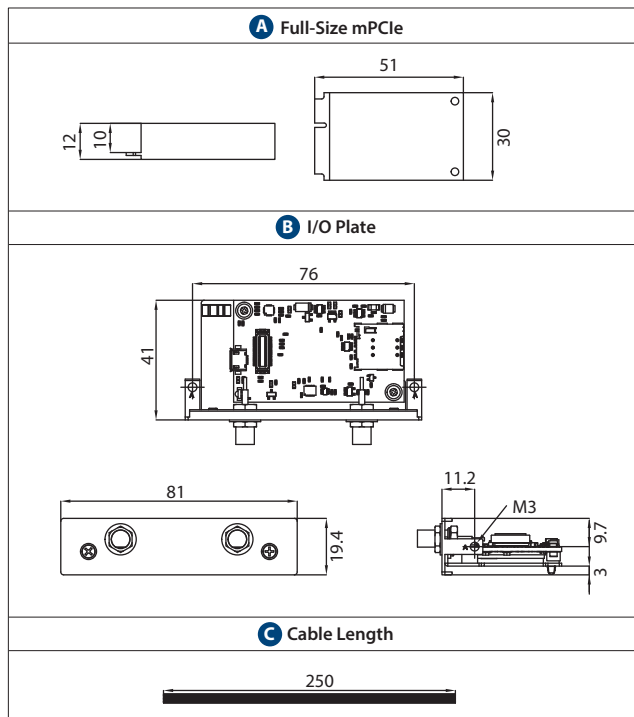
C-PCM-24S24G-MAV-1

General	
Host Interface	PCIe mini card (USB 2.0)
Dimensions	Module: 26.8 x 30 x 12.4 mm (1.06 x 1.18 x 0.49 in) I/O plate: 81 x 19.4 x 41 mm (3.19 x 0.76 x 1.61 in)
Wireless Module	MultiTech Dragonfly™ MTQ-MNA1-B02
Category	Category M1
SIM Holder	1 x Micro SIM (3FF)
Certification	FCC, UL/cUL, PTCRB, Verizon, AT&T
Power Consumption	176mA max @ 5V _{DC}
Antenna	690 ~ 960 MHz, 1710 ~ 2700 MHz
Cable	2*5P-2.0/micro USB 5P(M) 25 cm 90D
GNSS	Available upon request
Communication	
Frequency Band	LTE-UE: B2(1900)/B4(AWS1700)/B12(700) (AT&T) LTE-UE: B4(AWS1700)/B13(700) (Verizon)
Data Throughput	LTE UE data rate (Kbp): 300 (DL)/375 (UL)
Software	
OS Support	Windows 7/8/10 and Ubuntu 18.04
Environment	
Operating Temperature	-40 ~ 85 °C (-40 ~ 185 °F)
Relative Humidity	95% RH @ 40 °C, non-condensing

Regulations

C-PCM-24S24G is equipped with a MultiTech Dragonfly™ embedded cellular modem and complies with relevant regulations.

Dimensions



Ordering Information

- **C-PCM-24S24G-4AV-1** MultiTech iDoor module, LTE Cat. 4 for AT&T/Verizon
- **C-PCM-24S24G-1A-1** MultiTech iDoor module, LTE Cat. 1 for AT&T
- **C-PCM-24S24G-1V-1** MultiTech iDoor module, LTE Cat. 1 for Verizon
- **C-PCM-24S24G-MAV-1** MultiTech iDoor module, LTE Cat. M1 for AT&T/Verizon

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