

# EXAR Communications



This product is RoHS compliant.



Analog ICs

## EXAR USB 2.0 BUS INTERFACE UART'S

The XR21V141x series is the industry's fastest Universal Asynchronous Receiver Transmitter (UART) series with USB 2.0 compliant bus interface. The XR21V1410/V1412/V1414 have differentiated features which include the industry's smallest packaging options, up to 12Mbps, optimized software drivers, and support large FIFO sizes delivering flexible and proven design options to system architects.



For quantities 250 and up, call for quote.

MOUSER STOCK NO.	Exar Part No.	Package Type	No. of Channels	CPU Interface	Data Rate 5/3.3/2.5V	Auto RTS/CTS	Auto RS-485	Tx/Rx FIFO (Bytes)	Supply Voltage	Temp. Range	Price Each		
											1	25	100
701-XR21V1410IL16-F	XR21V1410IL16-F	QFN-16	1	USB 2.0	NA/12/NA	Yes	Yes	128/384	2.97V - 3.63V	-40 to 85°C	4.40	3.96	3.52
701-XR21V1412IL32-F	XR21V1412IL32-F	QFN-32	2	USB 2.0	NA/12/NA	Yes	Yes	128/384	2.97V - 3.63V	-40 to 85°C	7.53	6.77	6.02
701-XR21V1414IM48-F	XR21V1414IM48-F	TQFP-48	4	USB 2.0	NA/12/NA	Yes	Yes	128/384	2.97V - 3.63V	-40 to 85°C	14.20	12.78	11.36

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## EXAR LINE INTERFACE UNITS



For quantities 250 and up, call for quote.

MOUSER STOCK NO.	Exar Part No.	Package Type	Function	No. of Channels	Clock Rec	Data Rates	Long Haul/Short Haul	Temp. Range	Price Each		
									1	5	10
701-XRT83VL38IB-F	XRT83VL38IB-F	BGA-225	LIU	8	Yes	T1/E1/J1	Both	-40 to 85°C	35.44	32.78	30.12
701-XRT86VX38IB256-F	XRT86VX38IB256-F	PBGA-256	LIU/Framer Combo	8	Yes	T1/E1/J1	Both	-40 to 85°C	53.06	48.64	44.22
701-XRT86VX38IB329-F	XRT86VX38IB329-F	PBGA-329	LIU/Framer Combo	8	Yes	T1/E1/J1	Both	-40 to 85°C	53.06	48.64	44.22

Exar's full suite of SONET/SDH solutions provides customers innovative and market-proven product options – ones easily integrated, standards compliant, provide superior jitter performance, eliminate unnecessary discrete devices, reduce costs and accelerate time-to-market. Think of it, more features yet fewer components.

## EXAR DS1-E1 LIU'S

For quantities 100 and up, call for quote.

MOUSER STOCK NO.	Exar Part No.	Package Type	Temp. Range	No. of Channels	Data Rate(s)	Clk Rec	SH/LH	Temp Range	Operating Power Supply (max)	Price Each		
										1	10	50
701-XRT5683AID-F	XRT5683AID-F	SOIC-18	-45 to 85°C	1	T1,E1,T2,E2	Yes w/tank Ckt	S	Industrial	V ±5%, 40mA	17.51	11.67	8.48
701-XRT59L91ID-F	XRT59L91ID-F	SOIC-16	-45 to 85°C	1	E1	Yes	S	Industrial	3.3V ±5%, 56mA	11.75	10.44	6.97
701-XRT82D20IW-F	XRT82D20IW-F	SOJ-28	-45 to 85°C	1	E1	Yes	S	Industrial	3.3V ±5%, 58mA	21.09	14.06	11.39
701-XRT83D10IW-F	XRT83D10IW-F	SOJ-28	-45 to 85°C	1	E1	Yes	S	Industrial	3V ±5%, 5V ±5%	26.22	21.85	16.17
701-XRT83VSH28IB-F	XRT83VSH28IB-F	PBGA-225	-45 to 85°C	8	E1	Yes	S	Industrial	3.3V, ±5%.TBD	32.34	21.76	16.39
701-XRT83VSH38IB-F	XRT83VSH38IB-F	PBGA-225	-45 to 85°C	8	T1/E1/J1	Yes	S	Industrial	3.3V, ±5%.TBD	38.06	25.60	19.28
701-XRT83VSH314IB-F	XRT83VSH314IB-F	PBGA-304	-45 to 85°C	14	1.5/2 Mbps	Yes	S	Industrial	3.3V/1.8V, 1 A	41.14	33.88	--
701-XRT83VSH316IB-F	XRT83VSH316IB-F	STBGA316	-45 to 85°C	16	* T1, E1	Yes	S	Industrial	3.3V/1.8V w/ 5v tolerant	47.04	38.74	--

\*T1-1.544MHz, E1-2.048MHz

## EXAR DS3-E3 LIU'S

Exar has built a reputation for offering innovative T3/E3/STS-1 products with many industry firsts, including the single-chip jitter attenuators, integrated LIU plus JA, and an integrated LIU plus SONET/SDH desynchronizer incorporating R3 (Relay-less, Reconfigurable Redundancy) Technology(TM). Used individually or in chipsets, these devices are processing data in installed systems for some of the world's leading networking equipment manufacturers.

### Applications:

- Access Equipment
- DSLAMs
- Routers
- Multiplexers
- ATM, Wan & LAN Switches
- Digital Cross Connects
- Wireless Base Stations

For quantities 100 and up, call for quote.

MOUSER STOCK NO.	Exar Part No.	Package Type	Temp. Range	No. of Channels	Data Rate(s)	Clk Rec	SH/LH	Temp Range	Operating Power Supply (max)	Price Each		
										1	10	50
701-XRT7296IW-F	XRT7296IW-F	SOJ-28	-45 to 85°C	1	DS3,E3,SONET,STS-1	No	n/a	Industrial	5V ±5%, 133mA	18.09	12.06	9.77
701-XRT7295ATIWF-F	XRT7295ATIWF-F	SOJ-20	-45 to 85°C	1	E3	Yes	n/a	Industrial	5V ±5%, 106mA	51.84	37.70	24.31
701-XRT75R06DIB-F	XRT75R06DIB-F	PBGA 217	-45 to 85°C	6	DS3,E3,STS-1	Yes	n/a	Industrial	3V ±5%	140.80	131.41	--
701-XRT75R06IB-F	XRT75R06IB-F	PBGA 217	-45 to 85°C	6	DS3,E3,STS-1	Yes	n/a	Industrial	3V ±5%	122.40	114.25	--
701-XRT75R12DIB-F	XRT75R12DIB-F	TBGA 420	-45 to 85°C	12	DS3,E3,STS-1	Yes	n/a	Industrial	3V ±5%	281.60	262.81	--
701-XRT75R12IB-F	XRT75R12IB-F	TBGA 420	-45 to 85°C	12	DS3,E3,STS-1	Yes	n/a	Industrial	3V ±5%	244.80	228.53	--

## EXAR DS1-E1 FRAMER COMBOS

Exar's Framer & LIU combo devices capitalize on proven functional elements and merge them into one highly-integrated solution. For E1 applications, Common-Channel and Channel-Associated Signaling are supported in CRC Multi-frame and CAS Multiframe formats. These options are software selectable.

For quantities 100 and up, call for quote.

MOUSER STOCK NO.	Exar Part No.	Package Type	Temp. Range	No. of Channels	Data Rate(s)	Clk Rec	SH/LH	Temp Range	Operating Power Supply (max)	Price Each		
										1	10	50
701-XRT86VL30IV-F	XRT86VL30IV-F	LQFP-128	--	1	T1/E1/J1	Yes	S/L	Industrial	1.8V/3.3V	27.90	24.42	18.60
701-XRT86VL32IB-F	XRT86VL32IB-F	PBGA 225	--	2	T1/E1/J1	Yes	S/L	Industrial	3.3V ±5%	30.65	25.24	25.24
701-XRT86VL34IB-F	XRT86VL34IB-F	PBGA 225	--	4	T1/E1/J1	Yes	S/L	Industrial	3.3V ±5%	43.79	36.06	36.06
701-XRT86VL38IB-F	XRT86VL38IB-F	PBGA 420	--	8	T1/E1/J1	Yes	S/L	Industrial	3.3V ±5%	77.28	72.13	--

## EXAR PCI UARTS

For quantities 250 and up, call for quote.

MOUSER STOCK NO.	Exar Part No.	Package Type	Temperature Range	No. of Tx	No. of Rx	Data Rate Kbps	Vcc (V)	ESD (KV)	Price Each		
									1	5	10
701-SP331CT-L	SP331CT-L	SOICW-8	0°C to 70°C	4	4	10000	5	2	10.00	8.80	7.60
701-SP334ET-L	SP334ET-L	SOICW-28	-40°C to 85°C	3	3	10000	5	2	9.63	8.47	7.32
701-XR17D152CM-F	XR17D152CM-F	TQFP-100	0°C to 70°C	2	2	10000	5	2	20.66	18.59	17.30
701-XR17D154CV-F	XR17D154CV-F	LQFP-144	0°C to 70°C	4	4	10000	5	2	31.00	27.90	25.96

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