Quasonix



TMoIP Processor



Reliable, simple, and accurate packetized telemetry transport

The Quasonix TMoIP Processor (QTP[™]) is the ideal solution for distributing telemetry data across your network. It provides IRIG 218-20 compatible telemetry transport in both a bidirectional 12-channel 1U form factor (TMOIP-12) and a 3-channel integrated solution embedded in a 1U or 3U RDMS[™] receiver.

PCM Telemetry Interface

Stand Alone: 6 or 12 Channel; Integrated: 3 Channels – 1U standalone processor supports 6 or 12 channels of PCM input/output (field upgradeable from 6 to 12); RDMS integrated solution supports 3 channels of PCM input, one each for Channel 1, Channel 2, and Combiner.

PCM Telemetry Clock and Data Rates of 100 kbps to 50 Mbps Per Channel – Each channel supports an independent clock rate; bit rate detected automatically—no configuration needed.

Bidirectional – To provide maximum flexibility, each channel can serve as a PCM input or output (TMoIP-12 only).

Electrical Interface via TTL or RS-422 – Clock and data for each channel can be configured for TTL via 75 ohm BNC, or for RS-422 via MDM-25 connectors (TMoIP-12 only).

Configurable TX/RX Clock and Data Polarity with Auto Clock Edge Detection – Clocking edge can be automatically determined via relationship with data (most reliable edge is selected).

1U and 3U RDMS are factory upgradable to add 3-channel TMoIP capability (IP2 option). Contact sales@quasonix.com for details!

Network Interface

Two 1000 Base-T Gigabit Ethernet RJ45 Ports – Separate ports for configuration and data.

IRIG 218-20 Packet Format – Support for the latest standard with first bit timestamping.

Time Synchronization – Via Network Time Protocol (NTP) or Precision Time Protocol (PTP) IEEE-1588/PTPv2.

Per Channel Configuration – Each channel is independently configurable for maximum flexibility.

Configurable DQE Frame Alignment – TMoIP packet starts with a DQE frame and contains its full payload.

User Interface

Local and Remote Management for Configuration and Monitoring – Front Panel LCD and LEDs for Health and Status; Web Browser Based UI for Command, Control, Health, and Status.

BER Test Mode with Generator and Analyzer – Allows full testing of system configuration and cabling prior to mission start.

Easy Field Updates – Software updates may be installed by the customer on-site.

PCM	
Minimum PCM Rate	100 kbps per channel
Maximum PCM Rate	50 Mbps per channel (max aggregate rate of all channels limited depending on specific user settings)
Signaling	TTL via 75 ohm BNC, RS-422 via MDM-25
PCM Code	NRZ-L
Auto Rate Detection	Yes
Channels	3 (Integrated into RDMS), 6 or 12 (1U Standalone)
Bidirectional	Yes, per channel. (RDMS Integrated is PCM IN only)
Clock Edge Detection	Auto, Rising, Falling

Network	
Ports	2 (one for Control traffic, one for TMoIP/Data traffic)
Speed	1000BASE-T (1 Gbps per port)
Packet Format	IRIG 218-20 (218-10 also supported for PCM IN/packet out mode only)
Frame Alignment	DQE
Time	Manual, NTP, PTP

Environmental	
Operating temperature	0°C to +50°C
Storage temperature	-20°C to +70°C
Operating humidity	0 to 95% (non-condensing)
Altitude	Up to 30,000 ft.

Physical	
Size	1U rack-mount chassis: 18.95" wide, 1.75" tall, 13.83" rack depth, 15.02" overall length
Weight	7.4 lbs.
Power	90-264 V-RMS, 47-63 Hz



TMoIP Processor rear panel

TMoIP Processor Browser Interface

In addition to providing accurate, reliable transport of all received telemetry data streams from receivers to the range network, the Quasonix TMoIP Processor comes with a rich, highly configurable, and easy-to-use interface. With features like automatic bit-rate and clock edge detection and a BER Test Mode with Generator and Analyzer, you'll have your system set up and running smoothly in next to no time. You can also count on lifetime software updates from Quasonix to keep your systems up to date with the latest IRIG standards.

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Data Network: ●												
Control Network:												
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Channel Status												
	Channel 1	Channel 2	Channel 3	Channel 4	Channel 5	Channel 6	Channel 7	Channel 8	Channel 9	Channel 10	Channel 11	Channel 12
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Channel Enabled	٠	٠	٠	٠	۰	٠	٠	٠	٠	•	٠	•
Direction	٠	٠	٠	٠	٠	٠	٠	٠	٠	•	٠	٠
Clock	٠	٠	٠	٠	٠	٠	•	٠	٠	•	٠	٠
Data	•	٠	٠	٠	•	٠	•	٠	٠	•	٠	٠
Bert Generator Enabled	•	•	•	•	•	•	•	•	•	•	•	•
DQE Sync	0	۲	0	۰	0	۰	0	۰	•	0	۰	٥
PCMIN Clock (Mbps)	20.000000	21.000000	22.000000	23.000000	24.000000	25.000000	26.000000	27.000000	28.000000	29.000000	30.000000	31.000000
Net OUT Bitrate (Mbps)	20.156502	21.171536	22.173508	23.190370	24.198354	25.209150	26.209934	27.219756	28.230178	29.235608	30.246934	31.247658
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TMoIP Processor Browser Interface (Continued)

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	Channel Configuration													
	Send Settings Refresh													
		Channel 1	Channel 2	Channel 3	Channel 8	Channel 9	Channel 10	Channel 11	Channel 12					
	Enable	۵			۵		•		•			•		
	Name	1	2	3	4	5	6	7	8	9	10	11	12	
	Data Flow Direction	PCM *IN* ·	PCM *OUT*•	PCM *IN* •	PCM *IN* ·	PCM *IN* •	PCM *IN* ·	PCM *IN* ·	PCM *IN* •	PCM *IN* ·	PCM *IN* •	PCM *IN* ·	PCM *IN* ·	
	PCM Interface	TTL 🔸	RS422 •	TTL 🔹	TTL 👻	TTL 🔹	TTL 👻	TTL 👻	TTL 🔸	TTL 👻	TTL 👻	TTL 👻	TTL 🕶	
	Show Network													
	IP Address	10.1.2.179	10.1.2.179	10.1.2.179	10.1.2.179	10.1.2.179	10.1.2.179	10.1.2.179	10.1.2.179	10.1.2.179	10.1.2.179	10.1.2.179	10.1.2.179	
	Netmask	255.255.255.0	255.255.255.0	255.255.255.0	255.255.255.0	255.255.255.0	255.255.255.0	255.255.255.0	255.255.255.0	255.255.255.0	255.255.255.0	255.255.255.0	255.255.255.0	
	Port	60001	60002	60003	60004	60005	60006	60007	60008	60009	60010	60011	60012	
	Dest. IP Addr	10.10.10.212	10.10.10.212	10.10.10.212	10.10.10.212	10.10.10.212	10.10.10.212	10.10.10.212	10.10.10.212	10.10.10.212	10.10.10.212	10.10.10.212	10.10.10.212	
	Dest. Port	60001	60002	60003	60004	60005	60006	60007	60008	60009	60010	60011	60012	
	Gateway	10.1.2.200	10.1.2.200	10.1.2.200	10.1.2.200	10.1.2.200	10.1.2.200	10.1.2.200	10.1.2.200	10.1.2.200	10.1.2.200	10.1.2.200	10.1.2.200	
	Show Polarity													
	RX Clock Edge	Falling Edge 🗸	Rising Edge ◄	Falling Edge ►	Falling Edge▼	Falling Edge -	Falling Edge ◄	Falling Edge ◄	Falling Edge ◄	Falling Edge▼	Falling Edge▼	Falling Edge •	Falling Edge+	
	RX Data Polarity	Normal •	Inverted •	Normal •	Normal •	Normal •	Normal •	Normal •	Normal •	Normal •	Normal •	Normal •	Normal 🕶	
	TX Clock Edge	Falling Edge 🗸	Rising Edge •	Falling Edge▼	Falling Edge •	Falling Edge •	Falling Edge ►							
	TX Data Polarity	Normal 🕶	Inverted •	Normal •	Normal 🕶	Normal 🕶	Normal 🕶	Normal 🕶	Normal 💌	Normal •	Normal •	Normal •	Normal 🕶	

Ordering Information

1U Part Number Example and Configuration



Channels: -6 or -12 - 6 or 12 channels supported

Options:

- -BS Bitsync option. Allows 'clockless' operation where only a data channel is available.
- -LR Low Rate option. Allows operation at rates lower than 100kbps.

For both options, exact rates supported are TBD

RDMS Metachannel

Starting in 2025, all new RDMS systems with the -IP2 option will include a fourth TMoIP channel that publishes RSSI and DQM from Channel 1, Channel 2, and Combiner, at settable frame rates up to 10 kHz or greater, for recording and monitoring purposes.

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