

QTPCM-4 QUICK GUIDE

Description

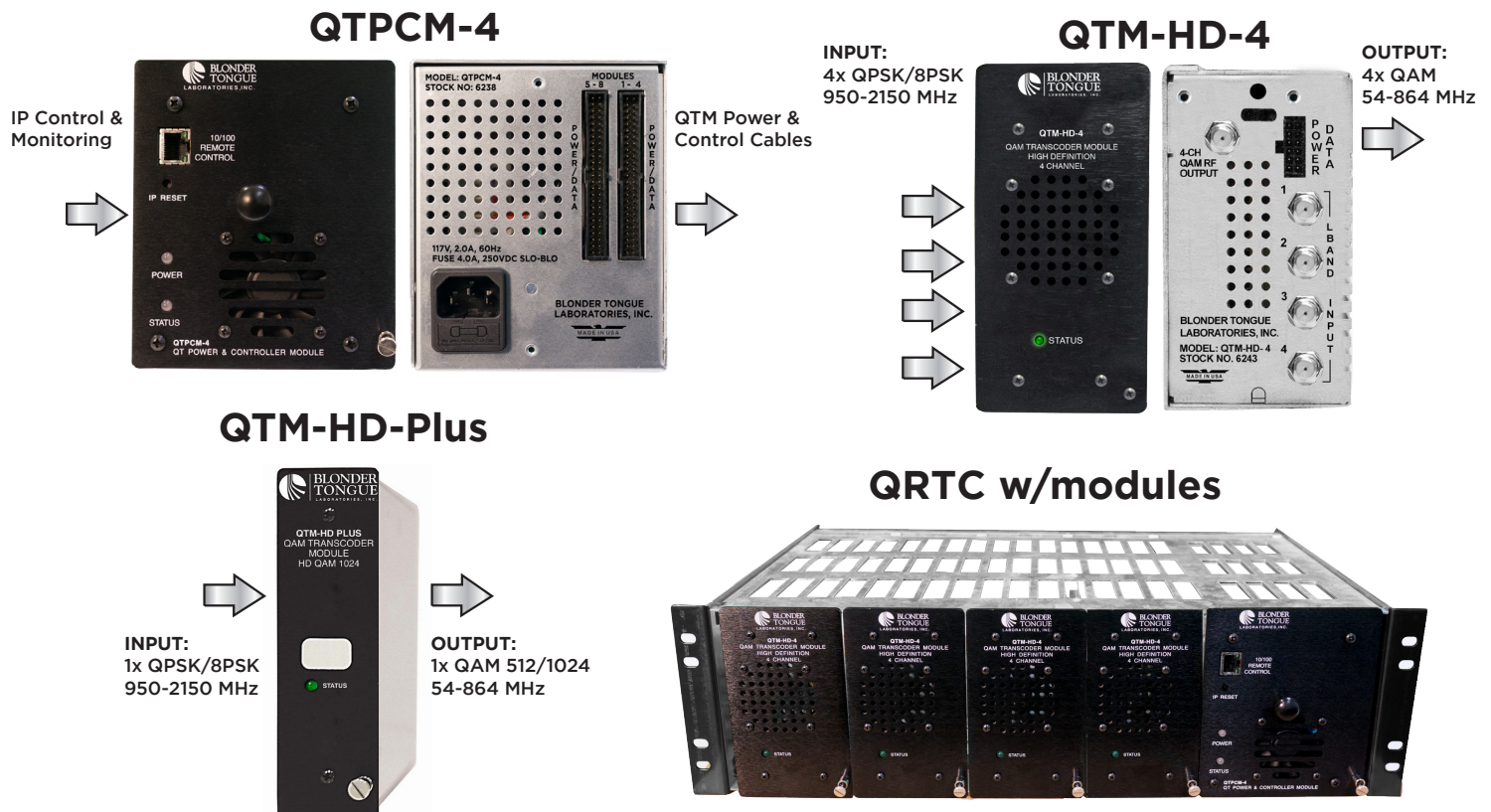
QTPCM-4 (QAM Transcoder Power Control Module) provides control and monitoring of QTM-HD-4 (6243), QTM-HD-4-NPU (6223) and QTM-HD-Plus (6242) transcoder modules via GUI-based web pages. Local or remote control via the Internet is accomplished with any computer running a standard web browser. The QTPCM-4 will power up to four (4) QTM-HD-4 (2 slot width) or four (4) QTM-HD-4-NPU (2 slot width); eight (8) QTM-HD-Plus (1 slot width); or a combination of modules all housed in a QTRC (stk# 6233A) rack chassis. The 3RU chassis, when fully loaded with four (4) QTM-HD-4 or (4) QTM-HD-4-NPU and a QTPCM-4, will transcode sixteen (16) QPSK/8PSK satellite transponders to sixteen (16) QAM channels.

The QTM-HD-4 contains (4) independent transcoders in a single module. Each transcoder accepts one (1) input in QPSK or 8PSK format and delivers (1) QAM channel output, therefore each QTM-HD-4 module transcodes (4) satellite transponders to (4) QAM channels (54-864 MHz). An integrated satellite selector switch allows the operator to select any of the 4 inputs to any of the transcoders without the need for an external multi-switch.

The QTM-HD-4-NPU functions the same as the QTM-HD-4, but with a "Null Packet" feature that allows adding/removing null packets to/from the input stream.

The QTM-HD-Plus features a single transcoder, accepting a QPSK or 8PSK input and delivering a single QAM channel output in the frequency range of 54-864 MHz. This module is typically used in applications requiring QAM 512/1024 modulation.

Note: Do not mix different input modulation rates within the same QTM-HD unit. The modulation rate needs to be either ALL 8PSK or ALL QPSK in the same unit. It is recommended to disconnect AC power to the QTPCM-4 prior to installing or removing any QTM-4 modules.



STEP 1 - Login

- Assign 172.16.70.2 as the static IP address for your computer.
- Enter 172.16.70.1 into your Browser to access the QTPCM-4.
- Logon with Username: “Admin” and the password: “pass”.

QTPCM-4

ESN: 2015040571 Temperature: 97.5°F Uptime: 0d 1h 45m 47s
Headend Name: Location:

Login

Username: Admin

Password: ●●●●

Submit

STEP 2 - Configure Inputs

Go to the Main > Input Config Tab to setup the input configuration.

- 1 Designates which QTM-HD-4 module is connected to the corresponding numbered cable from the QTPCM-4.
- 2 Select the L-band input satellite feed for the desired transponder based on rear panel connections.
- 3 Input the transponder’s L-band center frequency, in MHz, for each input.
- 4 Make sure the AUTO box is checked on all entries.
- 5 Click Submit.

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ESN: 2015040571 Temperature: 97.8°F Uptime: 0d 0h 58m 21s
Headend Name: Location:

Main Network Time Event Log Update Logout

Status Input Config Output Config Refresh

Input

1 3 2 4

	Status	Input Config	Input Status	Input Baud Rate	Input Modulation	Channel	QAM Output
1a	1061 MHz	1 2 3 4	SNR 11.8	21.50 Mbd/S	8PSK TURBO	2	NORMAL
1b	1149 MHz	1 2 3 4	SNR 12.4	21.50 Mbd/S	8PSK TURBO	4	NORMAL
1c	1207 MHz	1 2 3 4	SNR 11.9	21.50 Mbd/S	8PSK TURBO	6	NORMAL
1d	1236 MHz	1 2 3 4	SNR 11.4	21.50 Mbd/S	8PSK TURBO	96	NORMAL
2a	1061 MHz	1 2 3 4	SNR 11.8	21.50 Mbd/S	8PSK TURBO	30	NORMAL
2b	1149 MHz	1 2 3 4	SNR 12.4	21.50 Mbd/S	8PSK TURBO	32	NORMAL
2c	1207 MHz	1 2 3 4	SNR 11.9	21.50 Mbd/S	8PSK TURBO	32	NORMAL
2d	1236 MHz	1 2 3 4	SNR 11.4	21.50 Mbd/S	8PSK TURBO	36	NORMAL
3a	1061 MHz	1 2 3 4	SNR 11.8	21.50 Mbd/S	8PSK TURBO	70	NORMAL
3b	1149 MHz	1 2 3 4	SNR 12.4	21.50 Mbd/S	8PSK TURBO	72	NORMAL
3c	1207 MHz	1 2 3 4	SNR 12.0	21.50 Mbd/S	8PSK TURBO	74	NORMAL
3d	1236 MHz	1 2 3 4	SNR 11.4	21.50 Mbd/S	8PSK TURBO	76	NORMAL
4a	1061 MHz	1 2 3 4	SNR 11.8	21.50 Mbd/S	8PSK TURBO	132	NORMAL
4b	1149 MHz	1 2 3 4	SNR 12.4	21.50 Mbd/S	8PSK TURBO	133	NORMAL
4c	1207 MHz	1 2 3 4	SNR 11.9	21.50 Mbd/S	8PSK TURBO	134	NORMAL
4d	1236 MHz	1 2 3 4	SNR 11.4	21.50 Mbd/S	8PSK TURBO	135	NORMAL

5 Submit

STEP 3 - Verify Satellite Inputs

Go to the Main > Status page and verify all input parameters are set correctly:

- 1 All input statuses should be green to indicate channel lock. The required installation signal level range for each satellite input is -55 to -10 dBm.

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ESN: 2015040571

Temperature: 97.6°F

Uptime: 0d 0h 55m 29s

Headend Name:

Location:

Main	Network	Time	Event Log	Update	Logout
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Status	Input Config	Output Config	Refresh	QAM Output			
Input							
Inp	Frequency	Modulation	Input Status	Input Baud Rate	QTM module	Channel	Status
1-1	1061 MHz	8PSK TURBO	SNR 11.8	21.50 Mbd/S	1-a	2	NORMAL
1-1	1149 MHz	8PSK TURBO	SNR 12.3	21.50 Mbd/S	1-b	4	NORMAL
1-1	1207 MHz	8PSK TURBO	SNR 11.9	21.50 Mbd/S	1-c	6	NORMAL
1-1	1236 MHz	8PSK TURBO	SNR 11.3	21.50 Mbd/S	1-d	96	NORMAL
2-1	1061 MHz	8PSK TURBO	SNR 11.8	21.50 Mbd/S	2-a	30	NORMAL
2-1	1149 MHz	8PSK TURBO	SNR 12.4	21.50 Mbd/S	2-b	32	NORMAL
2-1	1207 MHz	8PSK TURBO	SNR 11.9	21.50 Mbd/S	2-c	32	NORMAL
2-1	1236 MHz	8PSK TURBO	SNR 11.4	21.50 Mbd/S	2-d	36	NORMAL
3-1	1061 MHz	8PSK TURBO	SNR 11.7	21.50 Mbd/S	3-a	70	NORMAL
3-1	1149 MHz	8PSK TURBO	SNR 12.4	21.50 Mbd/S	3-b	72	NORMAL
3-1	1207 MHz	8PSK TURBO	SNR 11.9	21.50 Mbd/S	3-c	74	NORMAL
3-1	1236 MHz	8PSK TURBO	SNR 11.3	21.50 Mbd/S	3-d	76	NORMAL
4-1	1061 MHz	8PSK TURBO	SNR 11.8	21.50 Mbd/S	4-a	132	NORMAL
4-1	1149 MHz	8PSK TURBO	SNR 12.3	21.50 Mbd/S	4-b	133	NORMAL
4-1	1207 MHz	8PSK TURBO	SNR 11.9	21.50 Mbd/S	4-c	134	NORMAL
4-1	1236 MHz	8PSK TURBO	SNR 11.3	21.50 Mbd/S	4-d	135	NORMAL

STEP 4 - Configure QAM Output

Go to the Output Config tab to setup output configuration.

- 1 Select the output QAM channel (#, frequency) for each corresponding input.

NOTE: All four QAM outputs for a QTM-HD-4 module must be within a 42 MHz bandwidth. Selected frequencies must be in increasing order from the first (top) to the last (bottom) transcoder within each module.

- 2 Select the RF Level in dBmV. The range is 32 to 42 dBmV.

NOTE: The output levels for all channels in the same QTM-HD-4 are determined by the first channel.

- 3 Set all Status values to normal.

- 4 Click Submit.

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ESN: 2015040571

Temperature: 97.9°F

Uptime: 0d 0h 59m 58s

Headend Name:

Location:

Main	Network	Time	Event Log	Update	Logout
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Status		Input Config		Output Config		Refresh					
Input						QAM Output					
Inp	Frequency	Modulation	Input Status	Auto	Inp BdRt	QAM Mode	QAM BdRt	Channel (STD)	RF Level dBmV	Status	
1-1	1061 MHz	8PSK TURBO	SNR 11.9	<input checked="" type="checkbox"/>	21.50 Mbd/S	256A	5.590 Mbd/S	2/57MHz	40	NORMAL	
1-1	1149 MHz	8PSK TURBO	SNR 12.4	<input checked="" type="checkbox"/>	21.50 Mbd/S	256A	5.590 Mbd/S	4/69MHz	40	NORMAL	
1-1	1207 MHz	8PSK TURBO	SNR 11.9	<input checked="" type="checkbox"/>	21.50 Mbd/S	256A	5.590 Mbd/S	6/85MHz	40	NORMAL	
1-1	1236 MHz	8PSK TURBO	SNR 11.4	<input checked="" type="checkbox"/>	21.50 Mbd/S	256A	5.590 Mbd/S	96/99MHz	40	NORMAL	
2-1	1061 MHz	8PSK TURBO	SNR 11.8	<input checked="" type="checkbox"/>	21.50 Mbd/S	256A	5.590 Mbd/S	30/261MHz	40	NORMAL	
2-1	1149 MHz	8PSK TURBO	SNR 12.4	<input checked="" type="checkbox"/>	21.50 Mbd/S	256A	5.590 Mbd/S	32/273MHz	40	NORMAL	
2-1	1207 MHz	8PSK TURBO	SNR 11.9	<input checked="" type="checkbox"/>	21.50 Mbd/S	256A	5.590 Mbd/S	32/273MHz	41	NORMAL	
2-1	1236 MHz	8PSK TURBO	SNR 11.4	<input checked="" type="checkbox"/>	21.50 Mbd/S	256A	5.590 Mbd/S	36/297MHz	40	NORMAL	
3-1	1061 MHz	8PSK TURBO	SNR 11.8	<input checked="" type="checkbox"/>	21.50 Mbd/S	256A	5.590 Mbd/S	70/501MHz	40	NORMAL	
3-1	1149 MHz	8PSK TURBO	SNR 12.4	<input checked="" type="checkbox"/>	21.50 Mbd/S	256A	5.590 Mbd/S	72/513MHz	40	NORMAL	
3-1	1207 MHz	8PSK TURBO	SNR 11.9	<input checked="" type="checkbox"/>	21.50 Mbd/S	256A	5.590 Mbd/S	74/525MHz	40	NORMAL	
3-1	1236 MHz	8PSK TURBO	SNR 11.4	<input checked="" type="checkbox"/>	21.50 Mbd/S	256A	5.590 Mbd/S	76/537MHz	40	NORMAL	
4-1	1061 MHz	8PSK TURBO	SNR 11.8	<input checked="" type="checkbox"/>	21.50 Mbd/S	256A	5.590 Mbd/S	132/843MHz	40	NORMAL	
4-1	1149 MHz	8PSK TURBO	SNR 12.4	<input checked="" type="checkbox"/>	21.50 Mbd/S	256A	5.590 Mbd/S	133/849MHz	40	NORMAL	
4-1	1207 MHz	8PSK TURBO	SNR 11.9	<input checked="" type="checkbox"/>	21.50 Mbd/S	256A	5.590 Mbd/S	134/855MHz	41	NORMAL	
4-1	1236 MHz	8PSK TURBO	SNR 11.4	<input checked="" type="checkbox"/>	21.50 Mbd/S	256A	5.590 Mbd/S	135/861MHz	40	NORMAL	

4

Submit

STEP 5 - Verify QAM Outputs

Go to the Main > Status page:

- 1 Verify all output parameters are set properly.

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ESN: 2015040571

Temperature: 97.6°F

Uptime: 0d 0h 55m 29s

Headend Name:

Location:

Main

Network

Time

Event Log

Update

Logout

Status		Input Config		Output Config		Refresh	
Input					QAM Output		
Inp	Frequency	Modulation	Input Status	Input Baud Rate	QTM module	Channel	Status
1-1	1061 MHz	8PSK TURBO	SNR 11.8	21.50 Mbd/S	1-a	2	NORMAL
1-1	1149 MHz	8PSK TURBO	SNR 12.3	21.50 Mbd/S	1-b	4	NORMAL
1-1	1207 MHz	8PSK TURBO	SNR 11.9	21.50 Mbd/S	1-c	6	NORMAL
1-1	1236 MHz	8PSK TURBO	SNR 11.3	21.50 Mbd/S	1-d	96	NORMAL
2-1	1061 MHz	8PSK TURBO	SNR 11.8	21.50 Mbd/S	2-a	30	NORMAL
2-1	1149 MHz	8PSK TURBO	SNR 12.4	21.50 Mbd/S	2-b	32	NORMAL
2-1	1207 MHz	8PSK TURBO	SNR 11.9	21.50 Mbd/S	2-c	32	NORMAL
2-1	1236 MHz	8PSK TURBO	SNR 11.4	21.50 Mbd/S	2-d	36	NORMAL
3-1	1061 MHz	8PSK TURBO	SNR 11.7	21.50 Mbd/S	3-a	70	NORMAL
3-1	1149 MHz	8PSK TURBO	SNR 12.4	21.50 Mbd/S	3-b	72	NORMAL
3-1	1207 MHz	8PSK TURBO	SNR 11.9	21.50 Mbd/S	3-c	74	NORMAL
3-1	1236 MHz	8PSK TURBO	SNR 11.3	21.50 Mbd/S	3-d	76	NORMAL
4-1	1061 MHz	8PSK TURBO	SNR 11.8	21.50 Mbd/S	4-a	132	NORMAL
4-1	1149 MHz	8PSK TURBO	SNR 12.3	21.50 Mbd/S	4-b	133	NORMAL
4-1	1207 MHz	8PSK TURBO	SNR 11.9	21.50 Mbd/S	4-c	134	NORMAL
4-1	1236 MHz	8PSK TURBO	SNR 11.3	21.50 Mbd/S	4-d	135	NORMAL

Please visit our website at www.blondertongue.com to download the latest QTPCM-4 Instruction Manual (PDF document). First time website visitors are required to complete a short registration process prior to accessing product information. Once signed in, you can quickly navigate to the QTPCM-4 product page by simply searching on "QTPCM-4". The Instruction Manual can be found under the "Documents" tab.