

QTPCM-PF QUICK GUIDE

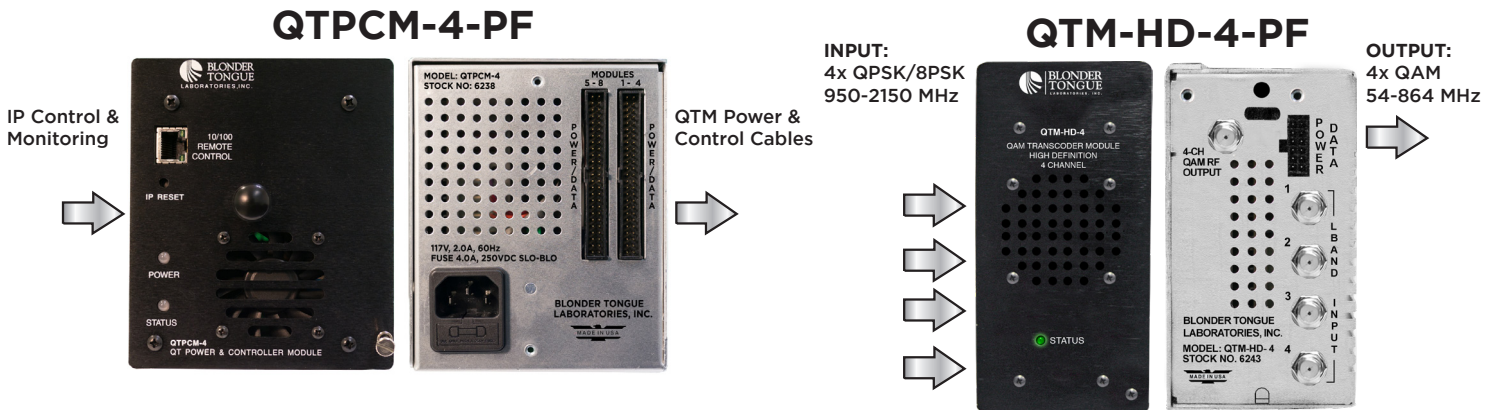
Description

QTPCM-4-PF (QAM Transcoder Power Control Module with Program Filtering) provides control and monitoring of QTM-HD-4-PF (6223-PF) 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-PF will power up to (4) QTM-HD-4-PF (2 slot width) modules all housed in a QTRC (stk# 6233A) rack chassis. The 3RU chassis, when fully loaded with four (4) QTM-HD-4-PF will transcode sixteen (16) QPSK/8PSK satellite transponders to sixteen (16) QAM channels.

The QTM-HD-4-PF 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-PF module transcodes (4) satellite transponders (950-2150 MHz) 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-PF functions the same as the previous QTM-HD-4, along with a null packet feature that allows adding/removing null packets to/from the input stream, and with a "Program Filter" feature that allows removing programs from the input stream to slim down the signal to fit in a 38.81Mbps QAM256 modulation.

Note: It is recommended to disconnect AC power to the QTPCM-4-PF prior to installing or removing any QTM-HD-4-PF modules.



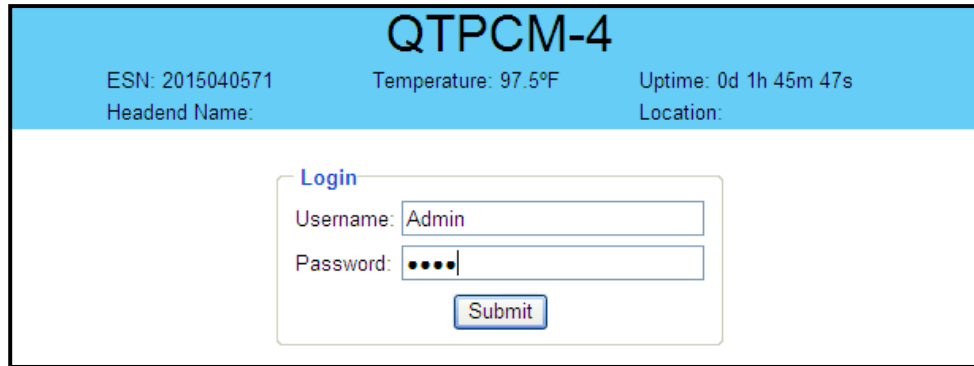
QTRC w/modules



STEP 1 - Login

Using a standard web browser you can log into the module's control panel. This can be done through the 10/100 Remote Control port, located on the front panel. Either go directly from a computer or through an Ethernet switch.

- Assign **172.16.70.2** as the static address for your computer
- Now open your browser and enter **172.16.70.1** to access the QTPCM-4-PF module.
- The Username is "Admin" and the password is "pass" (case-sensitive)

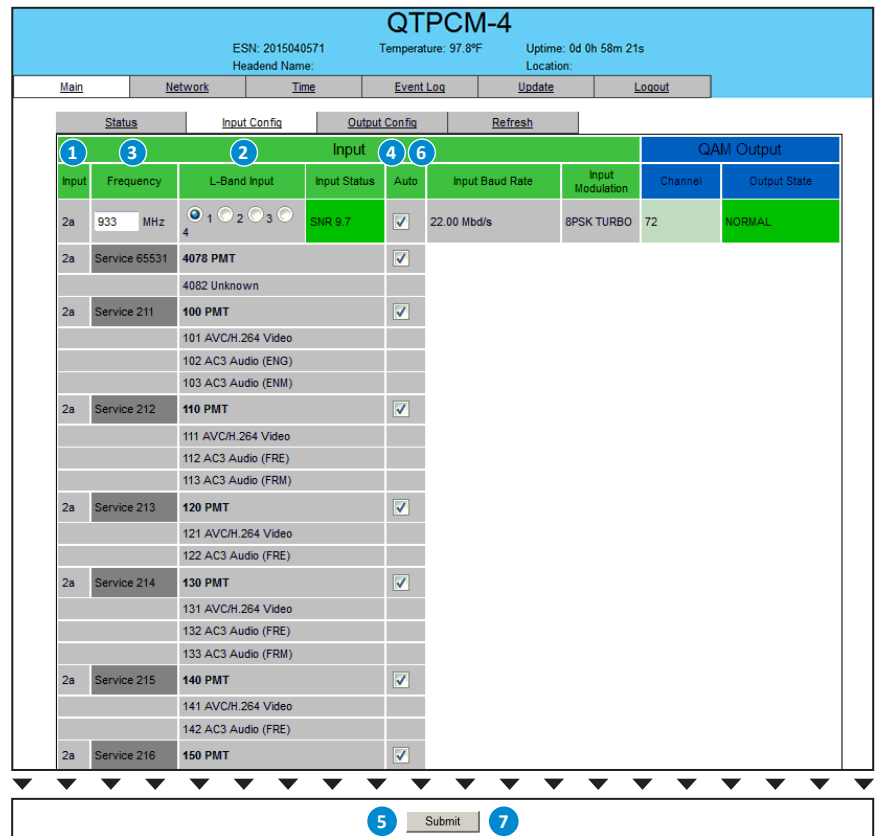


The login page for the QTPCM-4 module. It features a blue header with the title "QTPCM-4" and status information: ESN: 2015040571, Temperature: 97.5°F, Uptime: 0d 1h 45m 47s, Headend Name, and Location. Below the header is a login form with fields for Username (pre-filled with "Admin") and Password (masked with dots), and a "Submit" button.

STEP 2 - Configure Inputs

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

- 1 Designates which QTM-HD-4-PF module is connected to the corresponding numbered cable from the QTPCM-4-PF.
- 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.
- 6 Wait until signal is locked; then uncheck the programs that you DO NOT wish to pass.
- 7 Click Submit.



The Input Configuration page for the QTPCM-4 module. It shows a table with columns for Input, Frequency, L-Band Input, Input Status, Auto, Input Baud Rate, Input Modulation, Channel, and Output State. The table lists 16 services (2a Service 65531 to 2a Service 216) with their respective frequencies and L-band inputs. The "Auto" column is checked for all entries. The "Output State" column is set to "NORMAL".

Input	Frequency	L-Band Input	Input Status	Auto	Input Baud Rate	Input Modulation	Channel	Output State
2a Service 65531	933 MHz	4078 PMT	SNR 9.7	<input checked="" type="checkbox"/>	22.00 Mbd/s	8PSK TURBO	72	NORMAL
2a Service 211		100 PMT		<input checked="" type="checkbox"/>				
2a Service 212		110 PMT		<input checked="" type="checkbox"/>				
2a Service 213		120 PMT		<input checked="" type="checkbox"/>				
2a Service 214		130 PMT		<input checked="" type="checkbox"/>				
2a Service 215		140 PMT		<input checked="" type="checkbox"/>				
2a Service 216		150 PMT		<input checked="" type="checkbox"/>				

At the bottom of the page, there are two buttons: "5 Submit" and "7".

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.

QTPCM-4

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
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Input 1					QAM Output		
Imp	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-PF 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-PF are determined by the first channel.

- 3 Set all Status values to normal.

- 4 Click Submit.

QTPCM-4

ESN: 2015040571

Temperature: 97.9°F

Uptime: 0d 0h 59m 58s

Headend Name:

Location:

Main

Network

Time

Event Log

Update

Logout

Status

Input Config

Output Config

Refresh

Input

QAM Output

②

③

①

Imp	Frequency	Modulation	Input Status	Auto	Imp BdrRt	QAM Mode	QAM BdrRt	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 and verify that all output parameters are set properly.

QTPCM-4

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

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Firmware Updates are available under “Tech Support” in the “Resources” section of the website. General instructions for the FTP site, as well as updating your firmware, are provided on this page.