

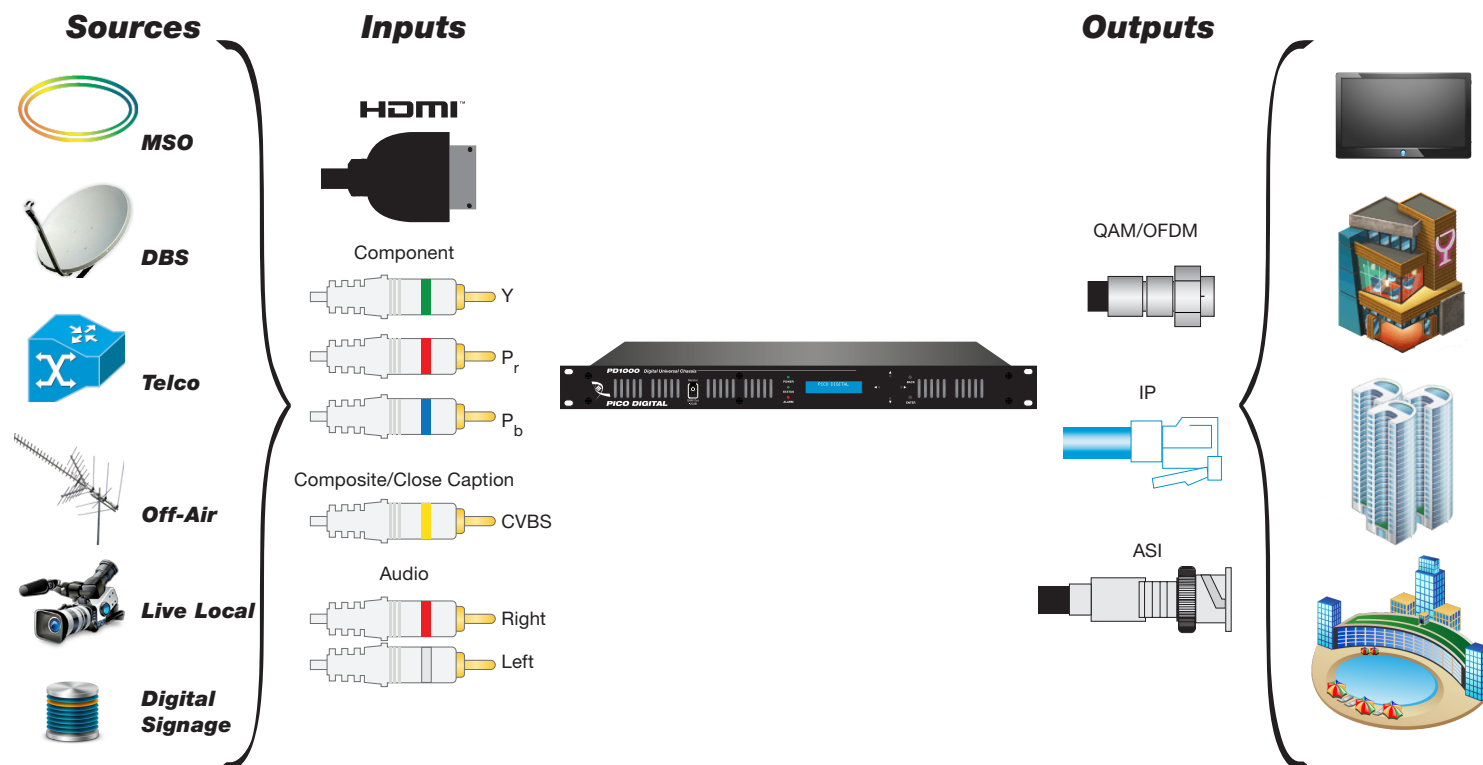


High Quality Dense Encoder Modulation System

FEATURES

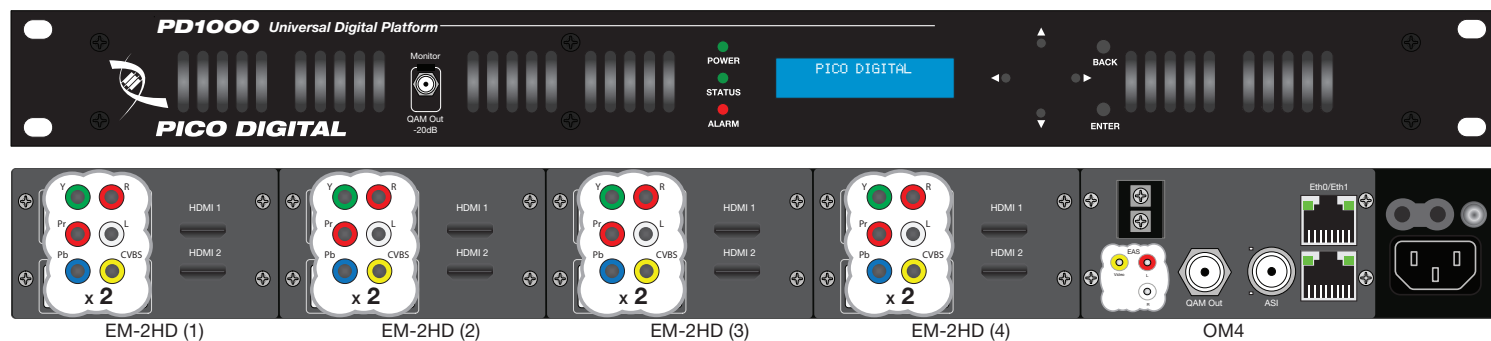
- Supports up to 1080p real time encoding and up to 8 HD video channels in MPEG-2 or H.264 formats in 1RU
- Encodes Audio - Dolby® Digital or MPEG
- QAM/OFDM, IP and ASI outputs
- Field upgradable with dual channel encoder modules (up to 4 per PD1000)
- Multiplexes up to 4 HD programs in 1 QAM/OFDM channel for bandwidth efficiency
- Inputs per dual encoder module - component, HDMI (clear) and composite/closed caption
- Integrated support for Emergency Alert System (EAS)
- Supports multiplexing of external compressed streams – via IP input
- Easy management and configuration via web browser
- Content forensics and analysis via watermarking
- External DC backup power supply

APPLICATIONS



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SPECIFICATIONS

AUDIO/VIDEO INPUTS Per Encoder Module

HDMI	Dual Type A v1.4 (Clear)
Component	Dual YPrPb, (RCA)
Audio	Dual Stereo (RCA)
Composite/Closed Caption	Dual CVBS (RCA)

VIDEO FORMATS

In/Out Line Rates	1080p/1080i/720p/480p/576i/480i
Frame Rates	25/29.97/30/50/59.97/60

VIDEO/ AUDIO COMPRESSION

Video Codecs	HD and SD MPEG-2/H.264
Audio Codecs	Layer II, Dolby® Digital (AC-3)

QAM/OFDM RF OUTPUT

Frequency Range	50 to 1002 MHz
RF Channel count	4
Modulation Modes	QAM 64/256, ISDB-T
QAM Type	Annex A/B/C
OFDM Type	ISDB-T
MER	> 40 dB
RF Level (pre-combined)	>60 dBmV
RF Level Adjustment Range (combined)	38 to 53 dBmV
Spurious	> 60 dBc
I/Q Amplitude Imbalance	< 1%
I/Q Phase Error	< 1°
Frequency Accuracy	± 100 Hertz
Phase Noise	100 dBc @ 10Khz offset
Amplitude flatness	± 0.25 dB (over 24 MHz bandwidth)
Output Connector	F-Female, 75Ω
Front Panel Test Port	F-Female, 75Ω, -20 dB

ASI OUTPUT

Multiplexed Output	BNC, 75Ω, 213 Mbps
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IP OUTPUT (optional)

Connection	RJ45, GbE, Full Duplex, Auto-Neg
Addressing	Unicast, Multicast (IGMP v1,2,3)
Transport Protocol	UDP/IP
Transport Format	SPTS, MPTS

MANAGEMENT

Connection	RJ-45, GbE, Full Duplex, Auto-Neg
Protocols	HTTP, SNMP (Optional)
User Interface	Web Browser
Browser Support	IE7 or later, Firefox 4 or later

EAS INPUTS

Video	CVBS (RCA)
Audio	Stereo (RCA)
Trigger	Terminals

INTERNAL AC POWER SUPPLY

Line Voltage	93-254 VAC, 47-63 Hz
Power Consumption	130 Watts

EXTERNAL DC POWER BACKUP

Voltage	+12 VDC ±5 % VAC
Current	< 10 Amps
Operating Temperature	0- 50° C

Dimensions	1RU, 19" (W)
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ORDERING INFORMATION

PD1000	Universal Digital Platform	OM4-IP	IP Output Option for OM4 (required OM4 hardware)
EM-2HD	MPEG2 or H.264 Dual HD Encoder Module for PD1000 (Cables Included)	OM4-SNMP	SNMP Option for OM4
OM4	QAM/OFDM/ASI/IP Output Module for PD1000	EM-2HD-WMR	Watermarking Option for EM-2HD
		X-PS	External Backup Power Supply

NOTE: Up to 4 dual encoder modules (EM-2HD) and 1 output module (OM4) per (PD1000) Platform

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