

## Trident7®

### IEEE 802.3 GEPON Optical Network Terminals

#### Features

- Single Dwelling Unit (SDU), Multiple Dwelling Unit (MDU), and Business Applications
- Aesthetic indoor and hardened outdoor models
- Triple-play data (10/100/1000BASE-T), Voice (POTS and VoIP), and Video (IP and RF with Integrated Return) Services
- USDA Rural Development Listed



#### Optical Network Terminal Selection

Aurora Networks sets the standard with the broadest selection of ONTs available to service single-family residential units, multi-dwelling units, and businesses. Our suite of IEEE 802.3 EFM (GEPON) ONTs includes the ONT-E4020i, ONT-E1320X, ONT-E1321X, ONT-E1321X-RTN and ONT-E888X-RTN models. Each of these ONTs features unique port configurations that optimize service delivery for particular subscriber modalities, thereby maximizing the network's penetration and revenue potential.

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### Indoor ONTs

The ONT-E4020i includes a market-leading four (4) 10/100/ 1000BASE-T ports. Standard on the ONT-E4020i is Aurora's per-port Quality of Service (QoS) feature, which allows data to be managed on a per-port basis, thereby providing a powerful mechanism through which network operators may glean additional revenue through differentiated services. Multiple ports provide subscribers the option of dedicated ports for IP video, VoIP services, or multiple computers without the need for a separate hub or router inside the residence. The ONT-E4020i also provides the capability to activate an embedded residential gateway feature with a licensed software upgrade.



ONT-E4020i

### Outdoor ONTs

The Aurora Networks outdoor ONT series provides one (1) 10/100/1000BASE-T and 3 10/100BASE-T data ports with per-port QoS, two (2) POTS ports, and one (1) available RF port for native support of both analog and QAM video with integrated RF return. Suitable for residential, SOHO, and small business applications, this ONT series is field hardened and does not require an environmentally controlled enclosure. A snap feature on the cover ensures a water resistant electronics compartment while individual self-sealing ports prevent water and insects from entering. The ONT-E132x series is designed to operate in temperatures ranging from -40° to +60° C, has dimensions of 10.9" H x 8.9" W x 2.9" D, and weighs 5.6 pounds.



ONT-E1321X-FRU-E in  
ENID-CH Enclosure

The ONT-E888 is designed to deliver a suite of advanced services to as many as eight subscribers via eight (8) 10/100BASE-T ports with per-port QoS, eight (8) POTS ports, and eight (8) RF ports with integrated RF return. This ONT is environmentally hardened, designed for -40° to +60° C operation, and can be pole or wall mounted. The ONT-E888 is 15.5" H x 11.75" W x 8.5" D and weighs 21.6 pounds.

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### 802.3 EFM (GEAPON) ONT Specifications

	Units	ONT-E4020i	ONT-E1320X	ONT-E1321X	ONT-E1321X-RTN	ONT-E888X-RTN
<b>Network Interface</b>						
Optical Interface		SC/APC	SC/APC	SC/APC	SC/APC	SC/APC
Fiber Type		Single-mode	Single-mode	Single-mode	Single-mode	Single-mode
Transmit Wavelength	nm	1310	1310	1310	1310	1310
Mean Launch Power	dBm	+1 to +4	+1 to +4	+1 to +4	+1 to +4	+1 to +4
Receive Wavelength (Data)	nm	1490	1490	1490	1490	1490
Receive Wavelength (RF Video)	nm	N/A	N/A	1550	1550	1550
Receive Sensitivity @1310nm	dBm	-27	-26	-26	-26	-26
Receive Sensitivity @ 1550nm (48 dB CNR, 3 EDFA Cascade, 78 Analog Cable TV channels)	dBm	NA	N/A	-5	-5	-5
Receive Overload @ 1490nm	dBm	-3	-3	-3	-3	-3
Receive Overload @ 1550nm	dBm	NA	N/A	>+1	>+1	>+1
Narrowcast Data Rate	Mbps	1250	1250	1250	1250	1250
Narrowcast Line Code		8B10B	8B10B	8B10B	8B10B	8B10B
<b>Telephony</b>						
Analog POTS Lines		2	2	2	2	8
REN		5	5	5	5	5
Inside Wiring (Maximum)	ft.	300	300	300	300	300
<b>Data</b>						
Ethernet Ports (Physical Connector)		(4) 10/100/1000BASE-T (RJ-45)	(1) 1000BASE-T (3) 10/100BASE-T (RJ-45)	(1) 1000BASE-T (3) 10/100BASE-T (RJ-45)	(1) 1000BASE-T (3) 10/100BASE-T (RJ-45)	(8) 10/100BASE-T (RJ-45)
Aggregate Data Throughput	Mbps	1000	1000	1000	1000	800
<b>RF Video</b>						
RF Video Ports (Physical Connector)		0	0	1 (Female F-type)	1 (Female F-type)	8 (Female F-type)
RF Video Output Bandwidth	MHz	NA	NA	54 - 1000	54 - 1000	54 - 1000
RF Output Level (@ 870 MHz, 3.5% OMI)	dBmV	NA	NA	+17 +/- 3	+17 +/- 3	+17 +/- 3
RF Output Tilt (Nominal, 54-870 MHz)	dB	NA	NA	+3	+3	+3
Optional RF Return		NA	NA	N/A	SCTE 55-1, DSG	SCTE 55-1, DSG
<b>Physical Characteristics</b>						
Dimensions (W x H x D)	in.	9 x 1.5 x 6.2	8.9 x 10.9 x 2.9	8.9 x 10.9 x 2.9	8.9 x 10.9 x 2.9	11.75 x 15.5 x 8.5
	mm	228 x 38 x 157.5	226 x 277 x 74	226 x 277 x 74	226 x 277 x 74	298 x 394 x 216
Weight	lbs.	1	5.6	5.6	5.6	21.6
	kg	.45	2.5	2.5	2.5	9.8
Operating Temperature	F	+32 to +113	-40 to +140	-40 to +140	-40 to +140	-40 to +140
	C	0 to +45	-40 to +60	-40 to +60	-40 to +60	-40 to +60
<b>Power</b>						
Input Voltage	VDC	12	12	12	12	-48
Maximum Power Consumption	W	5	11.5	13	13	36
Standby Power Consumption	W	NA	<7	<7	<7	NA
<b>Reliability</b>						
MTBF	hrs.	>200k	>200k	>200k	>200k	>200k
Availability	%	99.99	99.99	99.99	99.99	99.99