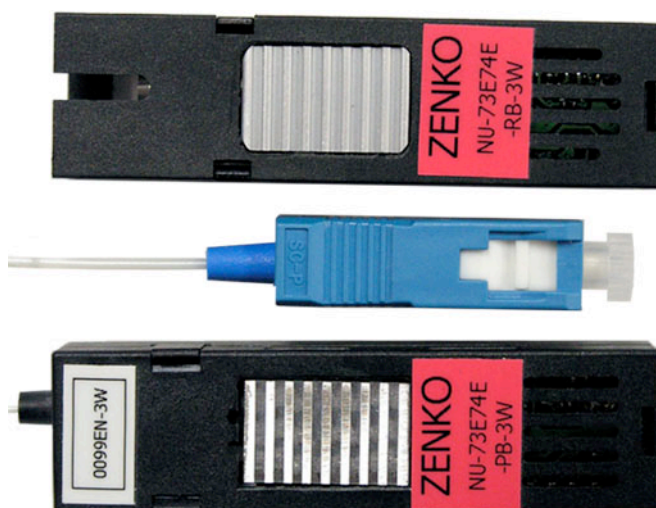


GE-PON (EPON) Module List with Specifications

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GE-PON Module List

Part No.:

H N U - 3 3 L 3 5 L - P

Code	Type
HNU	ONU
HDNU	ONU (DFB LD)
LT	OLT

Code	TX Speed
3	155 Mbps
5	622 Mbps
7	1.25 Gbps
9	2.5 Gbps

Code	TX Wavelength
3	1310 nm
4	1490 nm
5	1550 nm

Code	TX Output Power
L	Low Power (-8 ~ -13 dBm)
M	Medium Power (-4 ~ -9 dBm)
D	GE-PON 10 km IEEE 802ah1000BASE-PX20
F	GE-PON 15 km IEEE 802ah1000BASE Modified
E	GE-PON 20 km IEEE 802ah1000BASE-PX20
G	GE-PON 10 km Extended for 30dB power budget
K	GE-PON 15 km Extended for 30dB power budget
H	Extended GE-PON 20 km Extended for 30dB power budget

Code	RX Speed
3	155 Mbps
5	622 Mbps
7	1.25 Gbps
9	2.5 Gbps

Code	RX Wavelength
3	1310 nm
4	1490 nm (3W-TRX™)
5	1550 nm

Code	RX Sensitivity
L	Standard LEPON™
B	Class G/BPON
C	Class C G/BPON
D/F	EPON 10/15km
E	EPON 20 km
G/K	EPON 10/15km Extended for 30dB power budget
H	EPON 20 km Extended for 30dB power budget

Code	Package
K	2X5 SFF OLT and ONU (2R) K=P: Pigtailed, K=R: Receptacle
KB	2X6 SFF ONU (2R) K=P: Pigtailed, K=R: Receptacle
KC	2X6 SFF OLT (2R) K=P: Pigtailed, K=R: Receptacle
KM	2X5 SFF GE-PON ONU K=P: Pigtailed, K=R: Receptacle
SFPE	SFP

For example, HNU-73H74H-PB is a GE-PON ONU transceiver module for extended PX20 application, packaged in a 2 x 5 SFF package with a pigtail with a SC connector.

RoHS Compliance: For example, HNU-73H74H-PB is a standard GE-PON OLT module and HNU-73H74H-PBX is RoHS compliant OLT module.

The 3W-TRX device was co-developed by Zenko Technologies, Inc. and Optoway Technology (US Patent 7,062,171).

GE-PON SERIES (IEEE 802.3 ahD3.0)

**1.25 GBPS DOWNSTREAM / 1.25 GBPS UPSTREAM (Compatible with IEEE802.3ahD3.0-1000BASE-PX10)
(10 Km)**

OLT MODULE

P/No.	TX				RX					Temp. (°C) Note (a)	PIN	Package
	Type	Speed (Gb/s)	λ (nm)	Power (dBm)	Type	Speed (Gb/s)	λ (nm)	Sens. (dBm)	Sat. (dBm)			
LT-74D73D-KC	CNT	1.25	1490 DFB	2 to -3	BM, 2R	1.25	1310	-24	-1	0 to 70	2X6	SFF

ONU MODULE

P/No.	TX				RX					Temp.* (°C) Note (a)	PIN	Package
	Type	Speed (Gb/s)	λ (nm)	Power (dBm)	Type	Speed (Gb/s)	λ (nm)	Sens. (dBm)	Sat. (dBm)			
HNU-73D75D-KB	BM	1.25	1310 FP	4 to -1	CNT, 2R	1.25	1550 /1490	-24	-3	0 to 70	2X6	SFF
HNU-73D74D-KB (3W-TRX)™ VPON	BM	1.25	1310 FP	4 to -1	CNT, 2R	1.25	1490	-24	-3	0 to 70	2X6	SFF
HNU-73D75D-KM	BM	1.25	1310 FP	4 to -1	CNT, 2R	1.25	1550 /1490	-24	-3	0 to 70	2X5	SFF
HNU-73D74D-KM (3W-TRX)™ VPON	BM	1.25	1310 FP	4 to -1	CNT, 2R	1.25	1490	-24	-3	0 to 70	2X5	SFF

**1.25 GBPS DOWNSTREAM / 1.25 GBPS UPSTREAM (Modified: IEEE802.3ah1000BASE-PX15)
(15 Km)**

OLT MODULE

P/No.	TX				RX					Temp. (°C)	PIN	Package
	Type	Speed (Gb/s)	λ (nm)	Power (dBm)	Type	Speed (Gb/s)	λ (nm)	Sens. (dBm)	Sat. (dBm)			
LT-74F73F-KC	CNT	1.25	1490 DFB	5 to 0	BM, 2R	1.25	1310	-25	-5	0 to 70	2X6	SFF

ONU MODULE

P/No.	TX				RX					Temp. (°C)	PIN	Package
	Type	Speed (Gb/s)	λ (nm)	Power (dBm)	Type	Speed (Gb/s)	λ (nm)	Sens. (dBm)	Sat. (dBm)			
HHNU-73F75F-KB	BM	1.25	1310 FP	4 to -1	CNT, 2R	1.25	1490/ 1550	-24	-3	0 to 70	2X6	SFF
HHNU-73F74F-KB (3W-TRX)™ VPON	BM	1.25	1310 FP	4 to -1	CNT, 2R	1.25	1490	-24	-3	0 to 70	2X6	SFF
HHNU-73F75F-KM	BM	1.25	1310 FP	4 to -1	CNT, 2R	1.25	1490/ 1550	-24	-3	0 to 70	2X5	SFF
HHNU-73F74F-KM (3W-TRX)™ VPON	BM	1.25	1310 FP	4 to -1	CNT, 2R	1.25	1490	-24	-3	0 to 70	2X5	SFF

**1.25 GBPS DOWNSTREAM / 1.25 GBPS UPSTREAM (Specified for IEEE802.3ahD3.0-1000BASE-PX20)
(20 Km)**

OLT MODULE

P/No.	TX				RX					Temp. (°C) Note (a)	PIN	Package
	Type	Speed (Gb/s)	λ (nm)	Power (dBm)	Type	Speed (Gb/s)	λ (nm)	Sens. (dBm)	Sat. (dBm)			
LT-74E73E-KC	CNT	1.25	1490 DFB	7 to 2	BM, 2R	1.25	1310	-26	-6	0 to 70	2X6	SFF

OHNU MODULE

P/No.	TX				RX					Temp.* (°C) Note (a)	PIN	Package
	Type	Speed (Gb/s)	λ (nm)	Power (dBm)	Type	Speed (Gb/s)	λ (nm)	Sens. (dBm)	Sat. (dBm)			
HNU-73E75E-KB	BM	1.25	1310 FP	4 to -1	CNT, 2R	1.25	1550	-24	-3	0 to 70	2X6	SFF
HNU-73E74E-KB (3W-TRX) TM VPON	BM	1.25	1310 Super FP	4 to -1	CNT, 2R	1.25	1490	-24	-3	0 to 70	2X6	SFF
HNU-73E75E-K2x5	BM	1.25	1310 FP	4 to -1	CNT, 2R	1.25	1550	-24	-3	0 to 70	2X5	SFF
HNU-73E74E-KM (3W-TRX) TM VPON	BM	1.25	1310 Super FP	4 to -1	CNT, 2R	1.25	1490	-24	-3	0 to 70	2X5	SFF

GE-PON EXTENDED POWER BUDGET SERIES

1.25 GBPS DOWNSTREAM/1.25 GBPS UPSTREAM

OLT MODULE

P/No.	TX				RX					Temp. (°C) Note (a)	PIN	Package
	Type	Speed (Gb/s)	λ (nm)	Power (dBm)	Type	Speed (Gb/s)	λ (nm)	Sens. (dBm)	Sat. (dBm)			
LT-74H73H-PC	CNT	1.25	1490 DFB	7 to 2	BM, 2R	1.25	1310APD	-30	-10	0 to 70	2X6	SFF

HNU MODULE

(10km)

P/No.	TX				RX					Temp.* (°C) Note (a)	PIN	Package
	Type	Speed (Gb/s)	λ (nm)	Power (dBm)	Type	Speed (Gb/s)	λ (nm)	Sens. (dBm)	Sat. (dBm)			
HNU-73G75G-KB	BM	1.25	1310 FP	4 to -1	CNT, 2R	1.25	1550/ 1490	-26.5	-3	0 to 70	2X6	SFF
HNU-73G74G-KB (3W-TRX) TM	BM	1.25	1310 FP	4 to -1	CNT, 2R	1.25	1490	-26.5	-3	0 to 70	2X6	SFF
HNU-73G75G-KM	BM	1.25	1310 FP	4 to -1	CNT, 2R	1.25	1550/ 1490	-26.5	-3	0 to 70	2X5	SFF
HNU-73G74G-KM (3W-TRX) TM	BM	1.25	1310 FP	4 to -1	CNT, 2R	1.25	1490	-26.5	-3	0 to 70	2X5	SFF

HNU MODULE

(15km)

P/No.	TX				RX					Temp.* (°C) Note (a)	PIN	Package
	Type	Speed (Gb/s)	λ (nm)	Power (dBm)	Type	Speed (Gb/s)	λ (nm)	Sens. (dBm)	Sat. (dBm)			
HNU-73K75K-KB	BM	1.25	1310 FP	4 to -1	CNT, 2R	1.25	1550/ 1490	-26.5	-3	0 to 70	2X6	SFF
HNU-73K74K-KB (3W-TRX) TM	BM	1.25	1310 FP	4 to -1	CNT, 2R	1.25	1490	-26.5	-3	0 to 70	2X6	SFF
HNU-73K75K-KM	BM	1.25	1310 FP	4 to -1	CNT, 2R	1.25	1550/ 1490	-26.5	-3	0 to 70	2X5	SFF
HNU-73K74K-KM (3W-TRX) TM	BM	1.25	1310 FP	4 to -1	CNT, 2R	1.25	1490	-26.5	-3	0 to 70	2X5	SFF

HNU MODULE

(20km)

P/No.	TX				RX					Temp.* (°C) Note (a)	PIN	Package
	Type	Speed (Gb/s)	λ (nm)	Power (dBm)	Type	Speed (Gb/s)	λ (nm)	Sens. (dBm)	Sat. (dBm)			
HNU-73H75H-KB	BM	1.25	1310 FP	4 to -1	CNT, 2R	1.25	1550/ 1490	-26.5	-3	0 to 70	2X6	SFF
HNU-73H74H-KB (3W-TRX) TM	BM	1.25	1310 FP	4 to -1	CNT, 2R	1.25	1490	-26.5	-3	0 to 70	2X6	SFF
HNU-73H75H-KM	BM	1.25	1310 FP	4 to -1	CNT, 2R	1.25	1550/ 1490	-26.5	-3	0 to 70	2X5	SFF
HNU-73H74H-KM (3W-TRX) TM	BM	1.25	1310 FP	4 to -1	CNT, 2R	1.25	1490	-26.5	-3	0 to 70	2X5	SFF

TURBO-EPON SERIES

2.5 GBPS DOWNSTREAM/1.25 GBPS UPSTREAM

OLT MODULE

P/No.	TX				RX					Temp. (°C) Note (a)	PIN	Package
	Type	Speed (Gb/s)	λ (nm)	Power (dBm)	Type	Speed (Gb/s)	λ (nm)	Sens. (dBm)	Sat. (dBm)			
LT-74H93H-PC	CNT	2.5	1490 DFB	7 to 2	BM, 2R	1.25	1310APD	-30	-10	0 to 70	2X6	SFF
LT-74H93H-SFPE	CNT	2.5	1490 DFB	7 to 2	BM, 2R	1.25	1310APD	-30	-10	0 to 70	SFP Standard	SFP I2C
LT-74H93H-SFPEE	CNT	2.5	1490 DFB	7 to 2	BM, 2R	1.25	1310APD	-30	-10	0 to 70	SFP Standard	SFP I2C

HNU MODULE

(10km)

P/No.	TX				RX					Temp.* (°C) Note (a)	PIN	Package
	Type	Speed (Gb/s)	λ (nm)	Power (dBm)	Type	Speed (Gb/s)	λ (nm)	Sens. (dBm)	Sat. (dBm)			
HNU-73G94G-KB	BM	1.25	1310 FP	4 to -1	CNT, 2R	2.5	1490	-21	-3	0 to 70	2X6	SFF
HNU-73G94G-KM	BM	1.25	1310 FP	4 to -1	CNT, 2R	2.5	1490	-21	-3	0 to 70	2X5	SFF

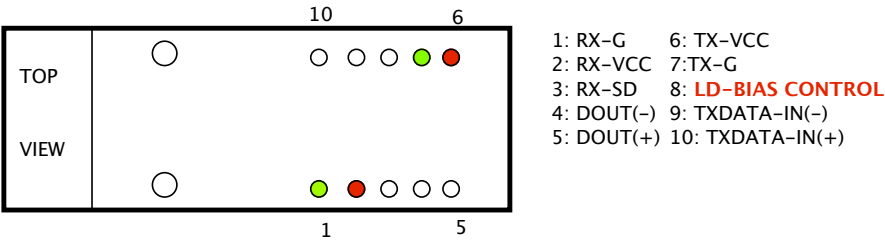
HNU MODULE

(20km)

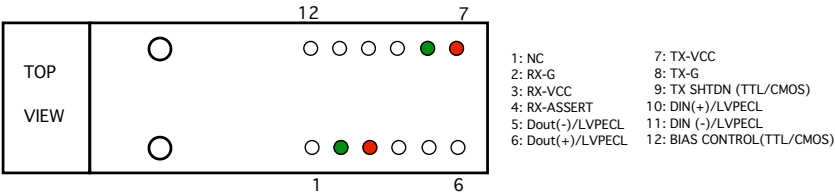
P/No.	TX				RX					Temp.* (°C) Note (a)	PIN	Package
	Type	Speed (Gb/s)	λ (nm)	Power (dBm)	Type	Speed (Gb/s)	λ (nm)	Sens. (dBm)	Sat. (dBm)			
DHNU-73H94H-KB	BM	1.25	1310 DFB	4 to -1	CNT, 2R/APD	2.5	1490	-30	-3	0 to 70	2X6	SFF
DHNU-73H94H-KM	BM	1.25	1310 DFB	4 to -1	CNT, 2R/APD	2.5	1490	-30	-3	0 to 70	2X5	SFF

PACKAGE PIN DESIGNATION **(Top View)**

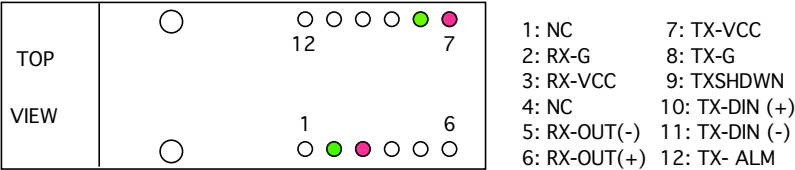
2x5 SFF KM (NU/HNU)



2X6 SFF KB (NU/HNU)



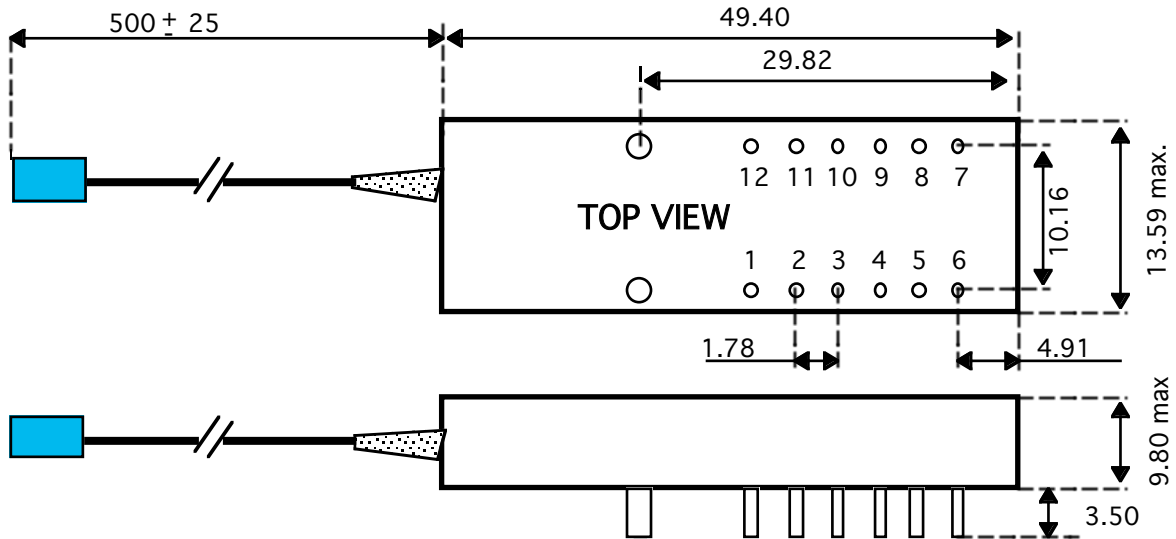
2X6 SFF KC (OLT)



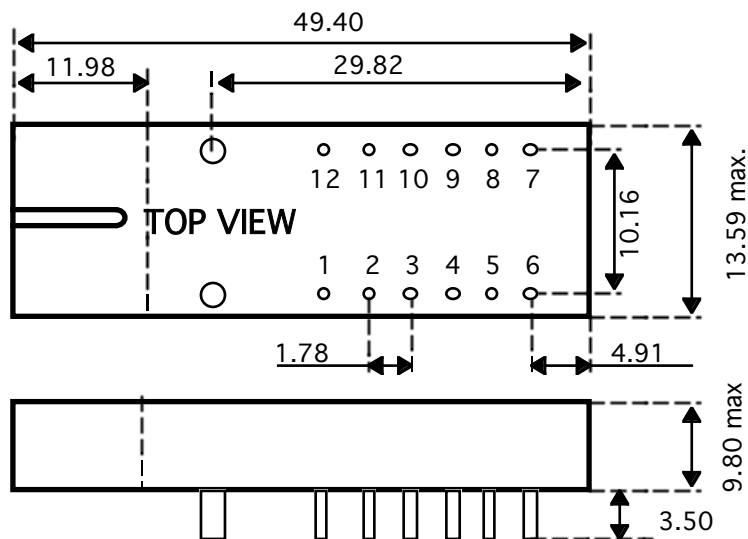
SFP (OLT) **Standard SFP Socket**

(2x6 SFF Type-KB & KC)

Type-P

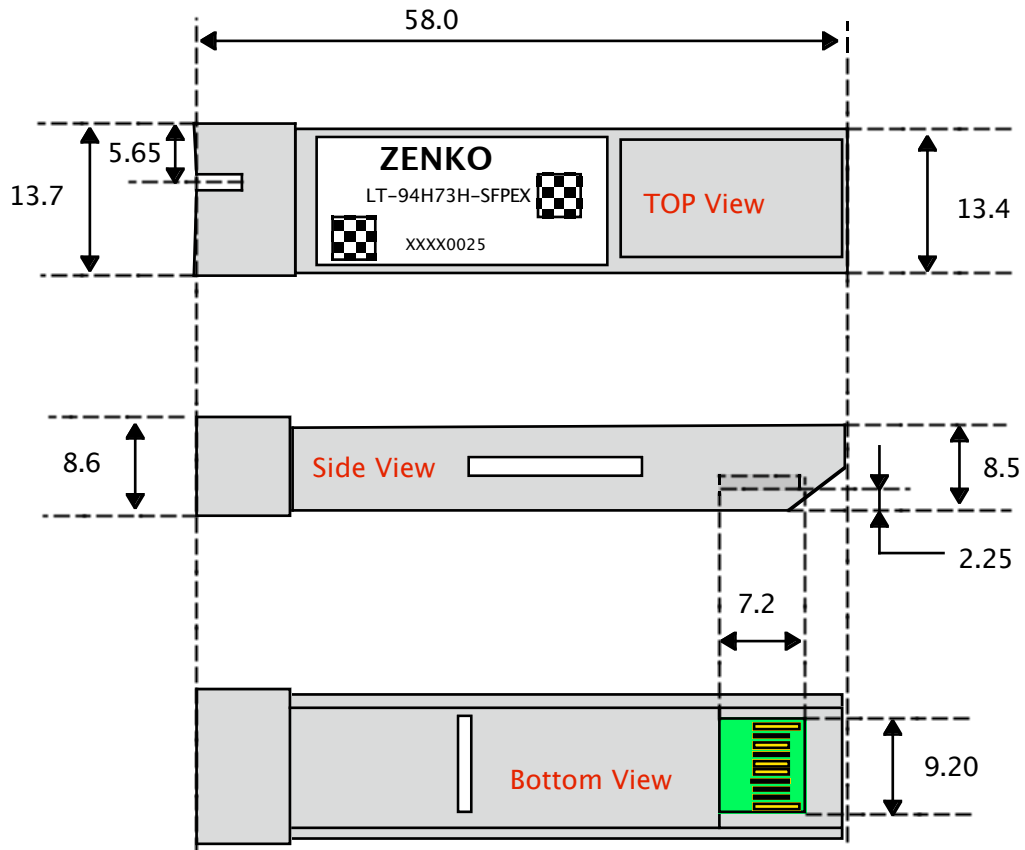


Typeza -R



THE DIAMETERS OF PINS (1~12) ARE 0.5 MM AND THE DIAMETERS OF THE TWO SUPPORT PINS ARE 1MM.

SFP Type



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