

MAXNET®

Pads / EQs / Connectors / Accessories Plug-in Pad & EQs



Patented
U.S.# 6,842,348;
Cdn.# 2,404,844

5RU Standard RF Chassis
(front view)

D3.1/CCAP™
Compliant

Ordering Information

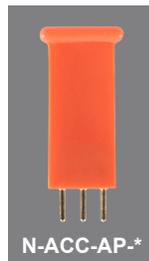
Pads & EQs (JXP-style)

Part Number	Description
MN*PAD	Plug-in Pad (* = 0-20 dB in 1 dB steps) (must order in quantities of 10), see specifications on page 2
N-ACC-AP-*	Plug-in Pad (* = 0-26 dB) (one piece N-ACC-AP-* = 25 pads) SignalOn® JXP pads can be used in MAXNET® modules (see SignalOn Accessories data sheet (#ANW1105) for details)
MN*EQ	Cable Tilt Forward Plug-in EQ (* = 1-16 dB) (must order in quantities of 10), see specifications on pages 2-3
N-ACC-LE-*	Plug-in EQ (* = 2-13 dB) SignalOn JXP EQs can be used in MAXNET modules (see SignalOn Accessories data sheet (#ANW1105) for details)
JXP EQL-1000-**.*	Linear Forward Path JXP Plug-in EQ, 1000 MHz (* = 2-8 dB) (must order in quantities of 10), see specifications on page 3
JXPEQL85-*	Linear Return Path JXP Plug-in EQ, 85 MHz (* = 2, 4, 6 or 8 dB) (must order in quantities of 10), see specifications on page 3



MN*PAD

* = Pad Value



N-ACC-AP-*

* = Pad Value



MN*EQ

* = EQ Value



N-ACC-LE-*

* = EQ Value



JXP EQL-1000-**.*

* = EQ Value



JXPEQL85-*

* = EQ Value

Ordering Information

EQs (QAE-style)

Part Number	Description (must order in quantities of 10)
QAE-00	Aug EQ, 1 GHz, see specifications on page 4
QAE 550-**.*	Aug EQ, Tall Handle (1.5-21 dB in increments of 1.5)
QAE 750-**.*	Aug-style EQ, 750 MHz (1.5-21 dB in increments of 1.5), see specifications on page 4
QAE 860-**.*	Aug-style EQ, 860 MHz (1.5-24 dB in increments of 1.5), see specifications on page 4
QAE 1000-**.*	Aug-style EQ, 1000 MHz (1.5-24 dB in increments of 1.5), see specifications on page 5
QAER 860-03V	EQ, -ADJ.RESP., 860 MHz, 3 dB Slope



QAE 860-**.*/
QAE 1000-**.*/
QAER 860-03V

* is EQ value from 1.5-24 dB
in 1.5 dB steps

Specifications

Plug-in Pads (JXP-style)

		MN0PAD	MN1PAD	MN2PAD	MN3PAD	MN4PAD	MN5PAD	MN10PAD
MEASUREMENT	FREQUENCY	(dB)						
ATTENUATION	5-10 MHz	+/- 0.1	+/- 0.2	+/- 0.2	+/- 0.2	+/- 0.3	+/- 0.4	+/- 0.5
	10-50 MHz	+/- 0.1	+/- 0.2	+/- 0.2	+/- 0.2	+/- 0.3	+/- 0.4	+/- 0.5
	50-200 MHz	+/- 0.1	+/- 0.2	+/- 0.2	+/- 0.2	+/- 0.3	+/- 0.4	+/- 0.5
	200-550 MHz	+/- 0.1	+/- 0.3	+/- 0.3	+/- 0.3	+/- 0.4	+/- 0.5	+/- 0.5
	550-750 MHz	+/- 0.1	+/- 0.3	+/- 0.3	+/- 0.3	+/- 0.4	+/- 0.5	+/- 0.5
	750-860 MHz	+/- 0.1	+/- 0.4	+/- 0.4	+/- 0.4	+/- 0.4	+/- 0.6	+/- 0.6
	860-1000 MHz	+/- 0.1	+/- 0.5	+/- 0.5	+/- 0.5	+/- 0.5	+/- 0.6	+/- 0.6
RETURN LOSS (Min)	5-10 MHz	30	30	30	30	30	30	30
	10-50 MHz	30	30	30	30	30	30	30
	50-200 MHz	25	25	25	25	25	25	25
	200-550 MHz	25	25	25	25	25	25	20
	550-750 MHz	22	22	22	22	22	22	19
	750-860 MHz	22	22	22	22	22	22	18
	860-1000 MHz	20	20	20	20	20	20	18

NOTE:

Most popular pad value specifications are shown. Values from 1-20 dB in 1 dB steps are also available.

Specifications

Plug-in EQs (Cable Tilt Forward JXP-style)

		MN1EQ	MN2EQ	MN3EQ	MN4EQ	MN5EQ	MN6EQ	MN7EQ	MN8EQ
MEASUREMENT	FREQUENCY	QA (dB)							
EQUALIZATION & FLATNESS	5 MHz	1.5 +/- 0.2	2.4 +/- 0.2	3.5 +/- 0.2	4.5 +/- 0.3	5.8 +/- 0.3	6.4 +/- 0.3	7.6 +/- 0.3	8.4 +/- 0.3
	10 MHz	1.5 +/- 0.2	2.4 +/- 0.2	3.5 +/- 0.2	4.5 +/- 0.3	5.8 +/- 0.3	6.4 +/- 0.3	7.6 +/- 0.3	8.4 +/- 0.3
	50 MHz	1.5 +/- 0.2	2.4 +/- 0.2	3.5 +/- 0.2	4.5 +/- 0.3	5.7 +/- 0.3	6.3 +/- 0.3	7.5 +/- 0.3	8.3 +/- 0.3
	200 MHz	1.4 +/- 0.3	2.3 +/- 0.3	3.1 +/- 0.3	3.7 +/- 0.4	5 +/- 0.3	5.2 +/- 0.3	6.1 +/- 0.3	6.6 +/- 0.3
	550 MHz	1.2 +/- 0.3	1.7 +/- 0.3	1.5 +/- 0.3	1.6 +/- 0.4	2.2 +/- 0.3	2.1 +/- 0.3	2.7 +/- 0.3	2.6 +/- 0.3
	750 MHz	0.8 +/- 0.3	1.2 +/- 0.3	1 +/- 0.3	1 +/- 0.4	1.2 +/- 0.4	1.2 +/- 0.4	1.7 +/- 0.4	1.5 +/- 0.4
	860 MHz	0.6 +/- 0.3	0.8 +/- 0.3	0.8 +/- 0.3	0.8 +/- 0.4	1 +/- 0.4	1 +/- 0.4	1.3 +/- 0.4	1 +/- 0.4
	1000 MHz	0.4 +/- 0.4	0.6 +/- 0.4	0.6 +/- 0.4	0.6 +/- 0.4	0.6 +/- 0.4	0.6 +/- 0.4	0.8 +/- 0.4	0.7 +/- 0.4
RETURN LOSS (Min)	5-10 MHz	28	28	30	30	30	30	28	28
	10-50 MHz	28	28	30	30	30	30	28	28
	50-200 MHz	22	22	22	22	24	24	22	22
	200-550 MHz	18	20	20	20	22	22	18	18
	550-750 MHz	18	20	20	20	22	22	18	18
	750-860 MHz	18	20	20	20	20	20	18	18
	860-1000 MHz	18	18	18	18	20	20	18	18

Specifications

Plug-in EQs (Cable Tilt Forward JXP-style)

		MN9EQ	MN10EQ	MN11EQ	MN12EQ	MN13EQ	MN14EQ	MN15EQ	MN16EQ
MEASUREMENT	FREQUENCY	QA (dB)	QA (dB)	QA (dB)	QA (dB)	QA (dB)	QA (dB)	QA (dB)	QA (dB)
EQUALIZATION & FLATNESS	5 MHz	9.5 +/- 0.3	10.2 +/- 0.3	11.6 +/- 0.3	12.6 +/- 0.3	13.3 +/- 0.3	14.3 +/- 0.3	15.4 +/- 0.3	16.2 +/- 0.3
	10 MHz	9.5 +/- 0.3	10.2 +/- 0.3	11.6 +/- 0.3	12.6 +/- 0.3	13.3 +/- 0.3	14.3 +/- 0.3	15.4 +/- 0.3	16.2 +/- 0.3
	50 MHz	9.3 +/- 0.3	9.8 +/- 0.3	11.2 +/- 0.3	12 +/- 0.3	12.7 +/- 0.3	13.7 +/- 0.3	14.7 +/- 0.3	15.4 +/- 0.3
	200 MHz	7 +/- 0.3	7.2 +/- 0.3	7.9 +/- 0.3	8.2 +/- 0.3	8.8 +/- 0.3	9.6 +/- 0.3	10.1 +/- 0.3	10.5 +/- 0.3
	550 MHz	2.7 +/- 0.3	2.6 +/- 0.3	2.6 +/- 0.3	2.6 +/- 0.3	2.9 +/- 0.3	3.5 +/- 0.3	3.7 +/- 0.3	3.9 +/- 0.3
	750 MHz	1.5 +/- 0.4	1.4 +/- 0.4	1.4 +/- 0.4	1.3 +/- 0.4	1.5 +/- 0.4	2 +/- 0.4	2 +/- 0.4	2.2 +/- 0.4
	860 MHz	1.2 +/- 0.4	1 +/- 0.4	1 +/- 0.4	0.9 +/- 0.4	1.1 +/- 0.4	1.4 +/- 0.4	1.5 +/- 0.4	1.6 +/- 0.4
	1000 MHz	0.6 +/- 0.4	0.6 +/- 0.4	0.6 +/- 0.4	0.6 +/- 0.4	0.8 +/- 0.4	0.8 +/- 0.4	0.8 +/- 0.4	0.8 +/- 0.4
RETURN LOSS (Min)	5-10 MHz	30	30	30	30	30	30	30	30
	10-50 MHz	30	30	30	30	30	30	30	30
	50-200 MHz	20	20	20	20	20	20	20	20
	200-550 MHz	18	18	18	18	18	18	18	18
	550-750 MHz	18	18	18	18	18	18	18	18
	750-860 MHz	18	18	18	18	18	18	18	18
	860-1000 MHz	18	18	18	18	18	18	18	18

Specifications

Plug-in EQs (Linear Forward JXP-style)

PART NUMBER	EQ VALUES	SLOPE 1000/45 MHz	PERMISSION TOLERANCE	INSERTION LOSS	EQ TOLERANCE	RETURN LOSS	IMPEDANCE
JXP EQL-1000-02.0	2 dB	1 dB	+/- 1 dB	≤ 1 dB	+/- 0.5 dB	≥ 18 dB	75 Ω
JXP EQL-1000-03.0	3 dB	2 dB	+/- 1 dB	≤ 1 dB	+/- 0.5 dB	≥ 18 dB	75 Ω
JXP EQL-1000-04.0	4 dB	3 dB	+/- 1 dB	≤ 1 dB	+/- 0.5 dB	≥ 18 dB	75 Ω
JXP EQL-1000-05.0	5 dB	4 dB	+/- 1 dB	≤ 1 dB	+/- 0.5 dB	≥ 18 dB	75 Ω
JXP EQL-1000-06.0	6 dB	5 dB	+/- 1 dB	≤ 1 dB	+/- 0.5 dB	≥ 18 dB	75 Ω
JXP EQL-1000-07.0	7 dB	6 dB	+/- 1 dB	≤ 1 dB	+/- 0.5 dB	≥ 18 dB	75 Ω
JXP EQL-1000-08.0	8 dB	7 dB	+/- 1 dB	≤ 1 dB	+/- 0.5 dB	≥ 18 dB	75 Ω

Specifications

Plug-in EQs (Linear Return JXP-style)

PART NUMBER	INSERTION LOSS (dB)		LINEARITY (dB)	RETURN LOSS (dB)
	5 MHz	85 MHz	5-85 MHz	5-85 MHz
JXPEQL85-2	2.5	0.5	0.3	≥ 20
JXPEQL85-4	4.5	0.5	0.3	≥ 20
JXPEQL85-6	6.5	0.5	0.3	≥ 20
JXPEQL85-8	8.5	0.5	0.3	≥ 20

Specifications

Plug-in EQs (QAE-style)		QAE-00	QAE750-1.5	QAE750-3.0	QAE750-4.5	QAE750-6.0	QAE750-7.5	QAE750-9.0	QAE750-10.5
MEASUREMENT	FREQUENCY	QA (dB)							
EQUALIZATION & FLATNESS	50 MHz	0.1 +/- 0.2	1.8 +/- 0.3	3 +/- 0.3	4 +/- 0.3	5.3 +/- 0.3	6.4 +/- 0.3	7.5 +/- 0.3	8.8 +/- 0.3
	200 MHz	0.1 +/- 0.2	1.6 +/- 0.3	2.6 +/- 0.3	3 +/- 0.3	3.9 +/- 0.3	4.5 +/- 0.3	5.5 +/- 0.3	5.9 +/- 0.3
	550 MHz	0.1 +/- 0.2	1 +/- 0.3	1.5 +/- 0.3	1.6 +/- 0.3	1.7 +/- 0.3	1.9 +/- 0.3	2 +/- 0.3	2.2 +/- 0.3
	750 MHz	0.2 +/- 0.2	0.9 +/- 0.3	1.1 +/- 0.3	1 +/- 0.3	1.1 +/- 0.3	0.9 +/- 0.3	1 +/- 0.3	1.1 +/- 0.3
	1000 MHz	0.3 +/- 0.2	--	--	--	--	--	--	--
RETURN LOSS	50-1000 MHz	16	16	16	16	16	16	16	16

Specifications

Plug-in EQs (QAE-style)		QAE750-12.0	QAE750-13.5	QAE750-15.0	QAE750-16.5	QAE750-18.0	QAE750-19.5	QAE750-21.0
MEASUREMENT	FREQUENCY	QA (dB)	QA (dB)	QA (dB)	QA (dB)	QA (dB)	QA (dB)	QA (dB)
EQUALIZATION & FLATNESS	50 MHz	9.9 +/- 0.3	10.9 +/- 0.3	12.2 +/- 0.3	13.4 +/- 0.3	14.4 +/- 0.3	15.6 +/- 0.3	16.9 +/- 0.3
	200 MHz	6.9 +/- 0.3	7.7 +/- 0.3	8.2 +/- 0.3	9 +/- 0.3	10.1 +/- 0.3	10.6 +/- 0.3	11 +/- 0.3
	550 MHz	2.5 +/- 0.3	2.8 +/- 0.3	3.1 +/- 0.3	3.1 +/- 0.3	3.6 +/- 0.3	3.9 +/- 0.3	3.3 +/- 0.3
	750 MHz	0.8 +/- 0.3	1.1 +/- 0.3	1.2 +/- 0.3	1.2 +/- 0.3	1.2 +/- 0.3	1.2 +/- 0.3	0.9 +/- 0.3
RETURN LOSS	50-750 MHz	16	16	16	16	16	16	16

Specifications

Plug-in EQs (QAE-style)		QAE-00	QAE860-1.5	QAE860-3.0	QAE860-4.5	QAE860-6.0	QAE860-7.5
MEASUREMENT	FREQUENCY	QA (dB)	QA (dB)	QA (dB)	QA (dB)	QA (dB)	QA (dB)
EQUALIZATION & FLATNESS	50 MHz	0.1 +/- 0.2	1.8 +/- 0.3	3.1 +/- 0.3	4.1 +/- 0.2	5.3 +/- 0.3	6 +/- 0.3
	200 MHz	0.1 +/- 0.2	1.6 +/- 0.3	2.6 +/- 0.3	3 +/- 0.2	4.2 +/- 0.3	4.6 +/- 0.3
	550 MHz	0.1 +/- 0.2	1.2 +/- 0.3	1.5 +/- 0.3	1.7 +/- 0.3	2.3 +/- 0.3	2.3 +/- 0.3
	750 MHz	0.2 +/- 0.2	1.1 +/- 0.3	1.2 +/- 0.3	1.2 +/- 10.3	1.3 +/- 0.3	1.2 +/- 0.3
	860 MHz	0.2 +/- 0.2	1 +/- 0.3	1.1 +/- 0.3	1.1 +/- 0.3	1.1 +/- 0.3	1 +/- 0.3
	1000 MHz	0.3 +/- 0.2	--	--	--	--	--
RETURN LOSS	50-1000 MHz	16	16	16	16	16	16

Specifications

Plug-in EQs (QAE-style)		QAE860-9.0	QAE860-10.5	QAE860-12.0
MEASUREMENT	FREQUENCY	QA (dB)	QA (dB)	QA (dB)
EQUALIZATION & FLATNESS	50 MHz	7.3 +/- 0.3	8.7 +/- 0.3	10 +/- 0.3
	200 MHz	5.2 +/- 0.3	6.4 +/- 0.3	7.2 +/- 0.3
	550 MHz	2.5 +/- 0.3	3.1 +/- 0.3	3.2 +/- 0.3
	750 MHz	1.3 +/- 0.3	1.5 +/- 0.3	1.5 +/- 0.3
	860 MHz	1 +/- 0.3	1.1 +/- 0.3	0.8 +/- 0.3
	1000 MHz	--	--	--
RETURN LOSS	50-1000 MHz	16	16	16

Specifications

Plug-in EQs (QAE-style)

		QAE860-13.5	QAE860-15.0	QAE860-16.5	QAE860-18.0	QAE860-19.5
MEASUREMENT	FREQUENCY	QA (dB)				
EQUALIZATION & FLATNESS	50 MHz	10.8 +/- 0.3	12.2 +/- 0.3	12.7 +/- 0.3	13.6 +/- 0.3	14 +/- 0.3
	200 MHz	7.9 +/- 0.3	8.8 +/- 0.3	9.5 +/- 0.3	10.4 +/- 0.3	10.7 +/- 0.3
	550 MHz	3.3 +/- 0.3	4.2 +/- 0.3	4.4 +/- 0.3	4.7 +/- 0.3	4.7 +/- 0.3
	750 MHz	1.5 +/- 0.3	2 +/- 0.3	2.1 +/- 0.3	2 +/- 0.3	1.6 +/- 0.3
	860 MHz	0.9 +/- 0.3	1.2 +/- 0.3	1.2 +/- 0.3	1.1 +/- 0.3	0.7 +/- 0.3
RETURN LOSS	50-860 MHz	16	16	16	16	16

Specifications

Plug-in EQs (QAE-style)

		QAE860-21.0	QAE860-22.5	QAE860-24.0
MEASUREMENT	FREQUENCY	QA (dB)	QA (dB)	QA (dB)
EQUALIZATION & FLATNESS	50 MHz	15 +/- 0.3	16.5 +/- 0.3	17.6 +/- 0.3
	200 MHz	11.3 +/- 0.3	11.7 +/- 0.3	12.4 +/- 0.3
	550 MHz	4.5 +/- 0.3	4.6 +/- 0.3	4.8 +/- 0.3
	750 MHz	1.3 +/- 0.3	1.4 +/- 0.3	1.5 +/- 0.3
	860 MHz	0.5 +/- 0.3	0.6 +/- 0.3	0.5 +/- 0.3
RETURN LOSS	50-860 MHz	16	16	16

Specifications

Plug-in EQs (QAE-style)

		QAE-00	QAE1000-1.5	QAE1000-3.0	QAE1000-4.5	QAE1000-6.0	QAE1000-7.5
MEASUREMENT	FREQUENCY	QA (dB)					
EQUALIZATION & FLATNESS	50 MHz	0.1 +/- 0.2	1.7 +/- 0.3	2.7 +/- 0.3	4 +/- 0.3	5.1 +/- 0.3	6.3 +/- 0.3
	200 MHz	0.1 +/- 0.2	1.5 +/- 0.3	2.2 +/- 0.3	3.2 +/- 0.3	4 +/- 0.3	5 +/- 0.3
	550 MHz	0.1 +/- 0.2	1.1 +/- 0.3	1.5 +/- 0.3	1.8 +/- 0.3	2.2 +/- 0.3	2.7 +/- 0.3
	750 MHz	0.2 +/- 0.2	0.9 +/- 0.3	0.9 +/- 0.3	1.1 +/- 0.3	1.3 +/- 0.3	1.6 +/- 0.3
	870 MHz	0.2 +/- 0.2	0.8 +/- 0.3	0.8 +/- 0.3	0.9 +/- 0.3	1 +/- 0.3	1 +/- 0.3
	1000 MHz	0.3 +/- 0.2	0.7 +/- 0.3	0.7 +/- 0.3	0.8 +/- 0.3	0.8 +/- 0.3	0.6 +/- 0.3
RETURN LOSS	50-1000 MHz	16	16	16	16	16	16

Specifications

Plug-in EQs (QAE-style)

		QAE1000-9.0	QAE1000-10.5	QAE1000-12.0
MEASUREMENT	FREQUENCY	QA (dB)	QA (dB)	QA (dB)
EQUALIZATION & FLATNESS	50 MHz	7.7 +/- 0.3	8.7 +/- 0.3	10 +/- 0.3
	200 MHz	5.5 +/- 0.3	6.4 +/- 0.3	7.2 +/- 0.3
	550 MHz	3.1 +/- 0.3	3.5 +/- 0.3	3.7 +/- 0.3
	750 MHz	1.9 +/- 0.3	2 +/- 0.3	2.1 +/- 0.3
	870 MHz	1.3 +/- 0.3	1.2 +/- 0.3	1.3 +/- 0.3
	1000 MHz	0.8 +/- 0.3	0.7 +/- 0.3	0.7 +/- 0.3
RETURN LOSS	50-1000 MHz	16	16	16

Specifications

Plug-in EQs (QAE-style)

		QAE1000-13.5	QAE1000-15.0	QAE1000-16.5	QAE1000-18.0	QAE1000-19.5
MEASUREMENT	FREQUENCY	QA (dB)				
EQUALIZATION & FLATNESS	50 MHz	11 +/- 0.3	12.2 +/- 0.3	13.5 +/- 0.3	14.6 +/- 0.3	15.6 +/- 0.3
	200 MHz	8.1 +/- 0.3	8.7 +/- 0.3	9.6 +/- 0.3	10.4 +/- 0.3	11.2 +/- 0.3
	550 MHz	4.2 +/- 0.3	4.7 +/- 0.3	5 +/- 0.3	5.5 +/- 0.3	5.8 +/- 0.3
	750 MHz	2.5 +/- 0.3	2.8 +/- 0.3	3 +/- 0.3	3.2 +/- 0.3	3.3 +/- 0.3
	870 MHz	1.4 +/- 0.3	1.7 +/- 0.3	1.6 +/- 0.3	1.9 +/- 0.3	2 +/- 0.3
	1000 MHz	0.6 +/- 0.3	0.7 +/- 0.3	0.5 +/- 0.3	0.7 +/- 0.3	0.7 +/- 0.3
RETURN LOSS	50-1000 MHz	16	16	16	16	16

Specifications

Plug-in EQs (QAE-style)

		QAE1000-21.0	QAE1000-22.5	QAE1000-24.0
MEASUREMENT	FREQUENCY	QA (dB)	QA (dB)	QA (dB)
EQUALIZATION & FLATNESS	50 MHz	16.9 +/- 0.3	17.9 +/- 0.3	19.3 +/- 0.3
	200 MHz	12.1 +/- 0.3	12.8 +/- 0.3	14 +/- 0.3
	550 MHz	6.1 +/- 0.3	6.5 +/- 0.3	7.3 +/- 0.3
	750 MHz	3.5 +/- 0.3	3.6 +/- 0.3	4.1 +/- 0.3
	870 MHz	2.1 +/- 0.3	2 +/- 0.3	2.4 +/- 0.3
	1000 MHz	0.8 +/- 0.3	0.7 +/- 0.3	1 +/- 0.3
RETURN LOSS	50-1000 MHz	16	16	16

MAXNET® is a registered trademark of ATX in the United States and/or other countries. Products or features contained herein may be covered by one or more U.S. or foreign patents. Other non-ATX product and company names mentioned in this data sheet are the property of their respective companies.

MAXNET specifications are only valid when ATX plug-in pads and EQs are used.

© 2019 by ATX Networks Corp. and its affiliates (collectively "ATX Networks Corp."). All rights reserved. This material may not be published, broadcast, rewritten, or redistributed. Information in this document is subject to change without notice. Rev. 10/19 (ANW0741)



ATX Networks

Tel: 289.204.7800 | Toll-Free: 866.YOUR.ATX | support@atx.com