Multi-band Panel
Dual Polarization
Half-power Beam Width

1710–2200
X
65°

KATHREIN
Antennen · Electronic

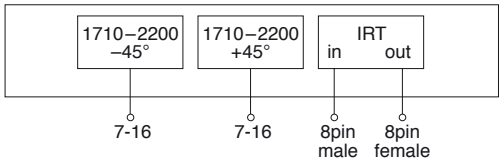
1800/1900/2000/2500 XPol

XPol Panel IRT 1710–2200 65° 18dBi 0°–10°T

Type No.	800 10314 / 800 10618		
A) Antenna specifications			
Frequency range		1710–2200	
	1710 – 1880 MHz	1850 – 1990 MHz	1920 – 2200 MHz
Polarization	+45°, –45°	+45°, –45°	+45°, –45°
Gain	2 x 17.7 dBi	2 x 17.9 dBi	2 x 18 dBi
Horizontal Pattern:			
Half-power beam width	67°	66°	65°
Front-to-back ratio	Copolar: > 30 dB Total power: > 25 dB	Copolar: > 30 dB Total power: > 25 dB	Copolar: > 30 dB Total power: > 25 dB
Cross polar ratio Maindirection 0° Sector ±60°	Typically: 25 dB > 10 dB	Typically: 25 dB > 10 dB	Typically: 25 dB > 10 dB
Vertical Pattern:			
Half-power beam width	7.1°	6.8°	6.6°
Electrical tilt	0°–10°, continuously adjustable		
Sidelobe suppression for first sidelobe above main beam	0° ... 4° ... 8° ... 10° T 16 ... 16 ... 16 ... 16 dB	0° ... 4° ... 8° ... 10° T 17 ... 17 ... 17 ... 17 dB	0° ... 4° ... 8° ... 10° T 17 ... 17 ... 17 ... 17 dB

VSWR	< 1.5
Isolation, between ports	> 30 dB
Intermodulation IM3	< –150 dBc (2 x 43 dBm carrier)
Max. power per input	120 W (at 50 °C ambient temperature)
Input	2 x 7-16 female IRT in: 1 x 8pin male IRT out: 1 x 8pin female
Connector position	Bottom
Weight	7.5 kg
Wind load (at 150 km/h)	Frontal / lateral / rearside: 350 / 100 / 410 N
Height/width/depth	1302 / 155 / 69 mm

B) IRT specifications	800 10314	800 10618
Logical interface ex factory[1)]	AISG 1.1	3GPP/AISG 2.0
Protocols	Compliant to AISG 1.1 and 3GPP/AISG 2.0	
Hardware interface[2)]	2 x 8pin connector acc. IEC 60130-9; according to AISG: – IRT in (male): Control / Daisy chain in – IRT out (female): Daisy chain out	
Power supply	10 ... 30 V	
Power consumption	< 1 W (stand by) < 8.5 W (motor activated)	
Adjustment time (full range)	40 sec.	
Adjustment cycles	> 50,000	



[1)] The protocol of the logical interface can be switched from AISG 1.1 to 3GPP/AISG 2.0 and vice versa with a vendor specific command. Start-up operation of the 800 10314 is only possible with a primary station supporting AISG 1.1 and start-up operation of the 800 10618 is only possible with a primary station supporting 3GPP/AISG 2.0!
Please note: The used Primary-SW has to be able to handle also integrated remote tilt units, like Kathrein CCU with firmware 1.29 or higher and the Kathrein PCA with SW 2.0 or higher. If the Primary of the system doesn't support the standard of the 'logical interface ex factory', the IRT must be switched to the appropriate standard of the Primary before installation. Please contact Kathrein for further information.

[2)] The tightning torque for fixing the connector must be 0.5 – 1.0 Nm ('hand-tightened'). The connector should be tightened by hand only!