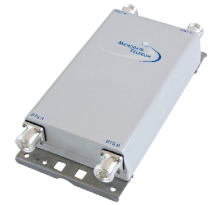




# MI-11401 TMA Twin 1900



## MASS™

### Microdata Advanced Site Solutions

With our expertise in site system design we are able to provide a solution for any site sharing or upgrade scenario.

Our focus area is RF-filter based solutions including combiners, multi band TMAs, di-, tri- and quadruplexers.

Our product portfolio supports all frequencies for mobile communication bands ranging from 450 MHz to 6 GHz.

Site and network sharing makes it cost efficient to reach sparsely populated areas where new subscribers can contribute to revenue.

## MASS™

### Advantage

**Increases coverage**  
more traffic & higher ARPU

**Increases capacity**  
more traffic & higher ARPU

**Reduces the cost**  
of network expansion

**Minimizes**  
site acquisition issues

## Specifications

Downlink (TX) Path	
Frequency Band	1930 - 1990 MHz
Insertion Loss	0.3 dB*
Continuous Average Power	200 W (53 dBm)
Intermodulation, 2x43 dBm TX Carrier BTS port	-116 dBm max. in RX band, ANT port
Uplink (RX) Path	
Frequency Band	1850 - 1910 MHz
Gain	12 dB nominal
Noise Figure	1.5 dB*
Insertion Loss, Bypass mode	2.0 dB*
Input IP3	12 dBm
Power Supply and Alarm	
DC Supply Voltage via BTS-RF cable	9 - 17 V DC
DC Supply Current, normal mode	100 mA*
DC Supply Current, alarm mode, single level	Factory configurable, 160 - 300 mA
Environmental	
Operating Temperature Range	-40 to +65°C
Operation	ETS 300 019-1-4
Storage	ETS 300 019-1-1
Ingress Protection	IP68
Miscellaneous	
EMC	FCC Part 15
Safety standards	EN 60950
MTBF	1.4 Mh/TMA min.
Mechanical	
Dimensions (WxHxD)	168x275x61 mm
Connectors	7/16 female, long neck
Mounting	Hose clamps, arbitrary orientation
Volume	2.8 l
Weight	4.6 kg
Colour	NCS 1502-R
	* typical

