

## 5012 Series 2x2 MIMO to SISO M2S

### Simply like SISO, powerful like MIMO

The acronym MIMO, or multiple input multiple output, identifies a system that typically consists in more input signals and more output signals on the same device.

For wireless systems MIMO should be read as a system working with multiple antennas arrays both in transmission and in reception, typically 2x2 or 3x3.

**Emisfera Sistemi** presents a patented solution that makes it possible MIMO protocol propagation over a single antenna, therefore achieving **MIMO system performance with SISO systems simplicity**.

#### M2S features:

- Throughput performance comparable to MIMO standard systems, i.e. +150% than SISO standard
- Combined with EmisferaBT® products over a single antenna, M2S product ensures better MIMO performance on long distances

- Cost (50% halving) and complexity saving on MIMO distributed antenna systems (DAS), i-DAS not needed
- MISO compliance with older generation SISO clients

#### M2S Applications fields:

- Wifi indoor and MIMO coverage through Emisfera BT systems
- Tech Upgrade from UMTS/GSM repeater systems (SISO) to LTE repeater systems (MIMO)
- Revamping of trains and vehicular systems from UMTS to LTE technology
- Tech upgrade from SISO point-to-point radio links (802.11h) to MIMO point-to-point radio links (802.11n/ac)





2x2 MIMO to SISO combiner. It can be used for MIMO AP 2x2 configuration on the same BT Antenna

### BT-M2S\_2x2

#### Tecnical Specifications:

MIMO Type	Standard: 2x2
Frequency Range	Standard: 700-4.000 MHz
RF Connectors	3 x Nf
Insertion loss (input p1)	3,3 dB (2x2)
Insertion loss (input p2)	4,9 dB (2x2)
Max input power	1W
Ports isolation	27dB
Return Loss	-20dB
Chassis	Aluminium
Size	98 x 64 x 34 mm
Mounting holes	2 x $\phi$ 4mm
IP protection degree	IP64
On demand:	Standard MIMO 3x3 and 4x4 Working frequency up to 6GHz

#### Mechanical Characteristics

