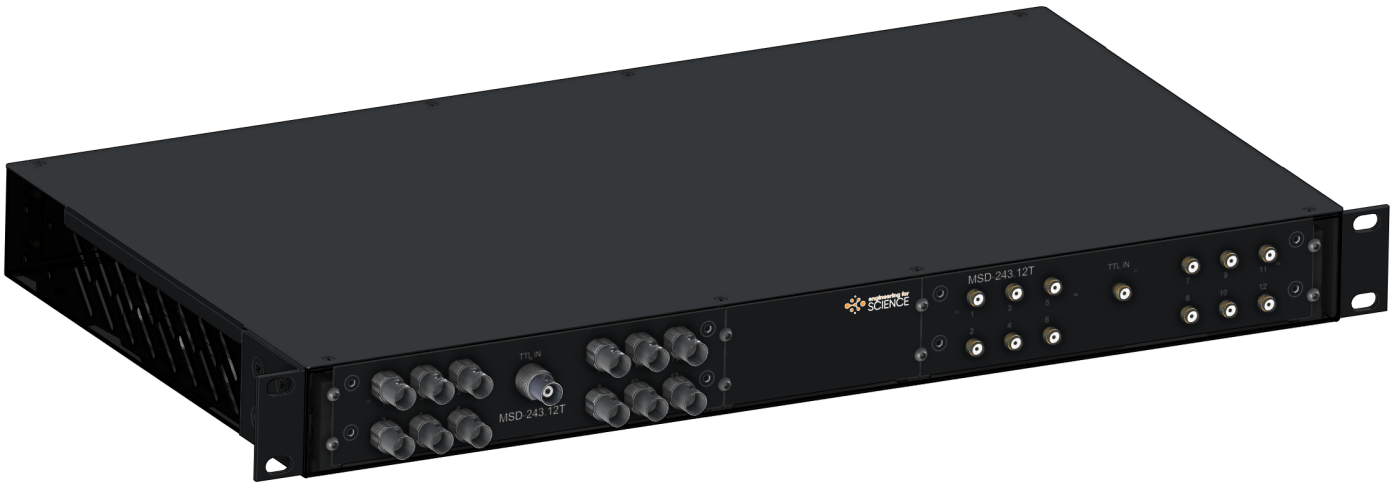
MSD-200 Series

We develop advanced instruments for science research, industrial measurements and other special applications

The MSD-243—TTL signal distribution module with replaceable input cards.



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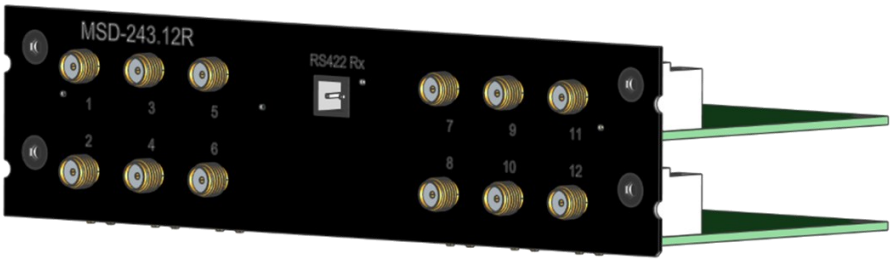
The **MSD-243** is a 12 outputs TTL splitter module with a replaceable input card. It is compatible with OCP cards and can be used as a multi-output splitter with signal -type conversion. Available inputs: TTL@50Ω, RS422(Rx) and GNSS receiver for 1PPS only. These modules can distribute many signals: 1PPS, 10MHz pulse, IRIG-B DCLS.

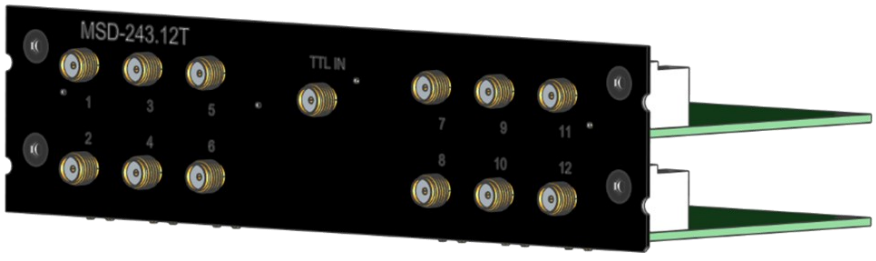
Description	Value
Outputs	**12xTTL** 50Ω up to 20MHz, SMA or BNC connector
Inputs	**1xRS422** Rx for 1PPS, IRIG-B DCLS, terminal block 3.5mm **1xTTL@50Ω** for 1PPS, IRIG-B DCLS, up to 20MHz, SMA/BNC **GNSS Receiver** for 1PPS, antenna input SMA **2xTTL@50Ω** with autoswitch to backup for 1PPS, up to 20MHz, SMA/BNC—on request **2xRS422** Rx with autoswitch to backup for 1PPS, up to 10MBps, terminal block 3.5mm—on request
Delay	< 8ns (typ. <6.5ns)
Jitter	<100ps (typ. <60ps)
Rise/Fall time	<2 ns (typical 1.5 ns)
Different outputs phase dispersion	<0.7ns (typical 0.3ns)
GNSS 1PPS output:	1PPS accuracy: <50 ns 1PPS stability: < 5ns @ 1sigma /[*2]
Power	12VDC @ 50mA
Dimensions	MSD-243.12: 168x80x40mm

Hardware versions of the **MSD-243**

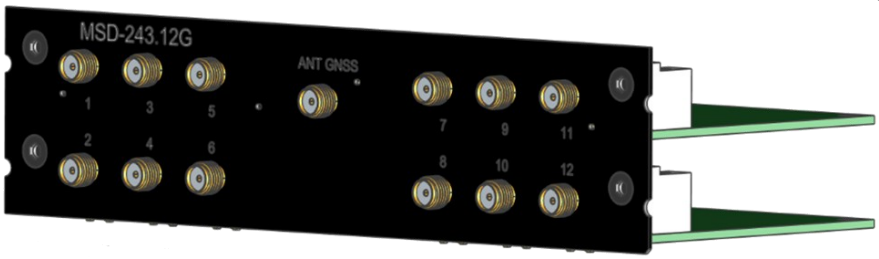
MSD-243R.SMA
One RS422 (Rx@100Ω) input and 12 TTL@50Ω SMA outputs



MSD-243T.SMA
One TTL@50Ω SMA input and 12 TTL@50Ω SMA outputs

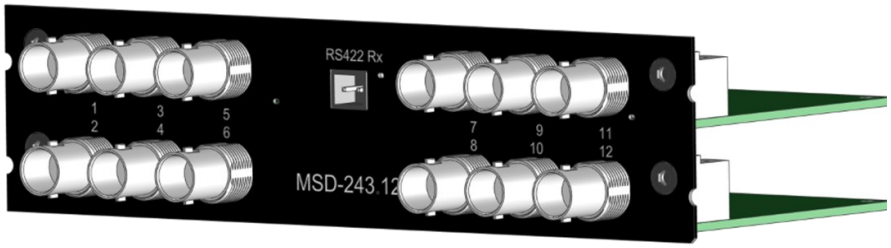


MSD-243G.SMA
One GNSS Receiver with external antenna (SMA) 1PPS source and 12 TTL@50Ω outputs

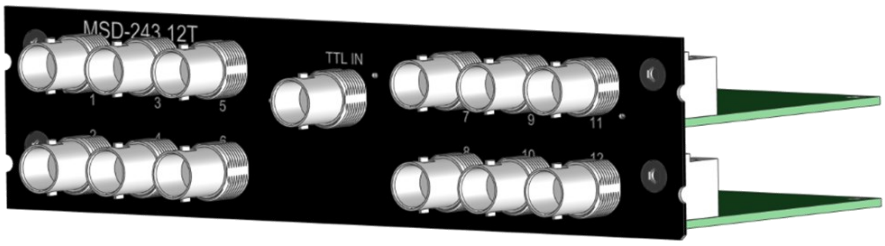


Hardware versions of the **MSD-243**

MSD-243R.BNC
One RS422 (Rx@100Ω) input and 12 TTL@50Ω BNC outputs



MSD-243T.BNC
One TTL@50Ω input and 12 TTL@50Ω BNC outputs.



MSD-243G.BNC
One GNSS Receiver with external antenna (SMA) 1PPS source and 12 TTL@50Ω BNC outputs