

MAT288 PROGRAMMABLE MATRIX/COMBINER



The **CS116** is a **passive, wideband combiner** designed to work with Wisycom and third-party IEM/IFB transmitters. Its special design **communicates with the MTK952(N) Transmitter** via the coaxial inputs to automatically compensate for combiner loss by increasing power from the TX side! (up to 3W per input)
Note: This is not an RF amplifier. When using with third-party transmitters, this device functions strictly as a passive combiner.

MAIN FEATURES

- 16 Input Combiner – select 4, 2, or 1 output(s)
- 3 position, Front Panel I/O selector enables [16:1], 2x [8:1] or 4x [4:1]
- Wideband operation (470-800MHz)
- Use with MKT952(N) to automatically recover combiner loss
- Accepts up to 3W per input
- Use in conjunction with the CSA121T Combiner to recover up to 15dB of loss (16:1 configuration)



Combiner Loss Recovery from MTK952 connected to CS116T The MTK952 raises power relative to the loss maintaining the limit on output port (country based).
 Approximate combiner loss:

- 6 dB for 4x [4:1]
- 9 dB for 2x [8:1]
- 12dB for [16:1]

Example:

Combiner 2x [8:1] configuration with high power transmitters: Country power limit:10mW
 By enabling external compensation on MTK952 units, the transmitters raise output power by 9dB to reach the 10mW maximum country power limit at the CS116T output.



TECH SPECS

Input Connectors:	16 BNC-F, 50 Ω of impedance
Output Connectors:	6 N-F, 50 Ω of impedance
Max input power:	3W (for each input connector)
Bandwidth:	470 ÷ 800MHz
Case:	Aluminum, black varnish
Power supply:	AC connector 90±264Vac /47±63Hz, (fuse protected) T2A-50W max DC connector 10± 28 VDC

Subject to change without notice