

TELEMED ULTRASOUND FOR SCIENCE & RESEARCH

Synch Triggers



SYNCHRONIZATION OF ULTRASOUND SCANNER AND EXTERNAL EQUIPMENTS

Telemed Beamformers can be equipped with additional connectors for the synchronization of the systems and other equipments.

For such purpose we provide special versions of ArtUs, SmartUs, MicrUs and ClarUs beamformers.

Signals / Scanners	ArtUs	SmartUs	MicrUs	ClarUs
Ultrasound Line output	Yes	Yes	Yes	Yes
Ultrasound Frame output	Yes	Yes	Yes	Yes
Ultrasound Line input	Yes	Yes	Yes	No
Ultrasound Frame input	Yes	Yes	Yes	No
ScanStart output	Yes	Yes	Yes	Yes
ScanStart input	Yes	Yes	Yes	Yes

Signals Description:

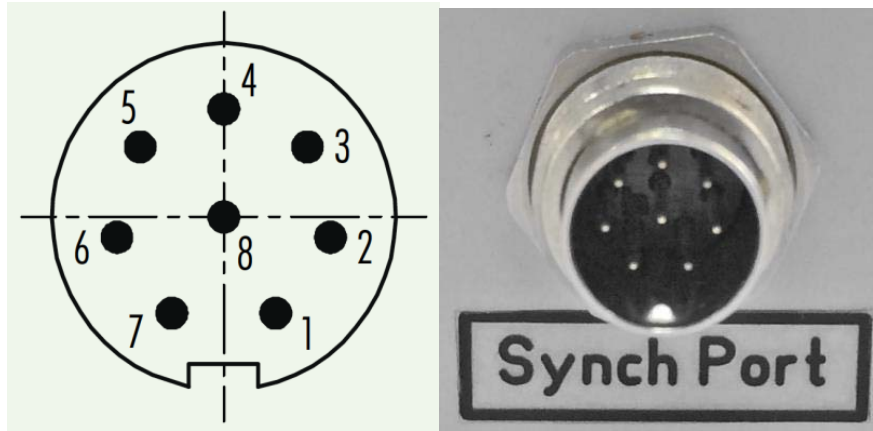
- **Ultrasound Line Output** – at falling edge system starts acquiring of ultrasound data from tissue for one ultrasound line
- **Ultrasound Frame output** – at falling edge system starts acquiring of ultrasound data from tissue for one ultrasound frame
- **Ultrasound Line input** – system starts acquiring of ultrasound data from tissue for one ultrasound line approximately in 20 us after rising edge of the signal
- **Ultrasound Frame input** – system starts acquiring of ultrasound data from tissue for one ultrasound frame approximately in 20 us after rising edge of the signal
- **ScanStart output** – system generate logic level “0” in Freeze mode and logic level “1” in scan mode
- **ScanStart input** – system start scan (from new frame) when logic level “1” and stop scan when logic level “0”



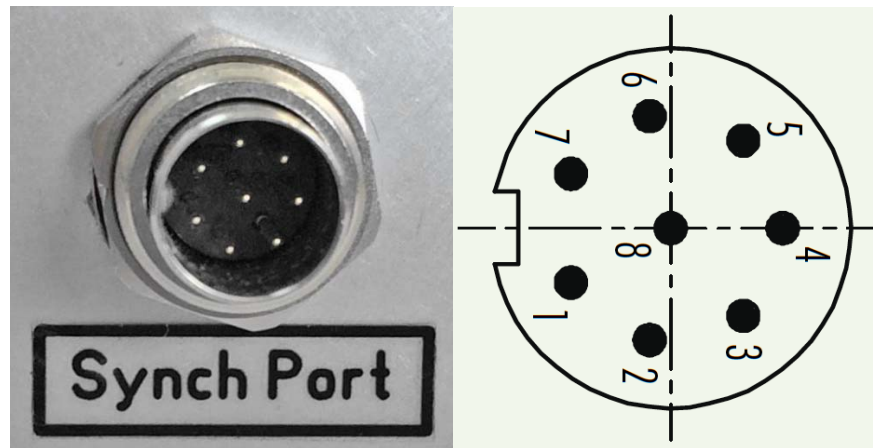
ArtUs I/O Synchrony Trigger option (6 SMA coax connectors type): Ultrasound Line/Frame outputs, Line/Frame inputs, ScanStart input/output



MicrUs Trigger Out option: Ultrasound Line & Ultrasound Frame outputs



MicrUs IN/OUT Synch Triggers – 8 pin circular connectors



SmartUs IN/OUT Synch Triggers – 8 pin circular connectors

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