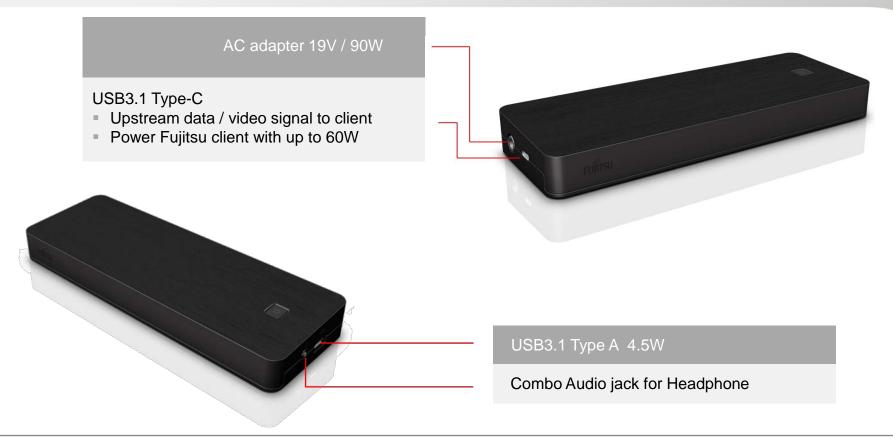
USB Type-C Portreplicator Interfaces



FUITSU

USB Type-C Portreplicator Interfaces



FUITSU

Additional Information

FUjitsu

- Supported Fujitsu devices:
- U727, U747, U757, P727, U937, T937
- > PXE boot possible, MAC address of USB Type-C Portreplicator is used
- MAC overwriting of USB Type-C Portreplicator only on running WINDOWS system
- Available type-C cable length = 1m
- USB3.1 is based on Gen1 with 5Gbit/s

Basic Display Output Matrix



P727 / U7x7 display output matrix										
	Internal Display		US							
External Display			HDMI 4096 x 2160 @24Hz 3840 x 2160@30Hz	Display Port 4096 x 2160 @24Hz 3840 x 2160@30Hz	VGA Output 1920×1200 60Hz	Limitations				
One	ON		ON							
	ON			ON						
	ON				ON					
Two	ON		ON	ON		1920x1080p60Hz				
	ON		ON		ON	1920x1080p60Hz				
	ON			ON	ON	1920x1080p60Hz				
Three	off		ON	ON	ON	1600x900 60Hz or 1280x1024 60Hz				

- With activated internal display, maximum two external display interfaces can be used. For this use cases see limitation resolution
- > VGA is supported either on system (if available) or on USB Type-C Portreplicator

Comparison



	FUJITSU USB Type-C Portreplicator	FUJITSU Portreplicator PR09	Thunderbolt (in general) no FTS products	FUJITSU Mechanical Portreplicator	Comment
Performance	► Up to 5Gbs via USB3.1 Gen1	► Up to 10Gbs via USB3.1 Gen2	► Up to 40Gbit/s total	 Systemperformance of device available 	TBT: only when using 0,5m cable, 1m cable are passive and then 20Gbit/s Bandwidth shared with other protocols
Pixel	 1x 4k display @24Hz, up to 3 display in parallel depending on system performance and resolution 	▶up to 2x 4k displayport (HBR2)@60Hz	► Up to 2x 4k@60Hz (HBR2) 1x 5k	 up to2x 4k/60Hz up to 3 display in parallel depending on system and resolution 	
Power Delivery to PC systems	► Up to 60W	► Up to 60W	► Up to 100W	► Optimized for each system	all based on USB-PD2.0 and depending on implementation. 100W also possible on USB- Type C
Protocols	► USB, DP1.2, Ethernet via USB	► USB3.1, DP1.2, Ethernet via USB	 USB3.1; PCI-E; Displayport; 10Gbit-Ethernet between computers 	► System protocols	TBT: shared with other TBT protocols
Pricing	► Mid range	► High pricing	► High pricing	► Entry pricing	High pricing, even with passiv cable
Pros	 Fitting perfect for FJ mobile clients, resume from different power states (powermanagement features) 2 external Displays running in FHD mode / 60Hz 	 Best compatibility to USB clients, backward compatible via adapters Good MAC spoofing implementation 	 Brilliant performance for dockings etc. but also needs to be shared with other protocolls like DP, PCI-E etc. Depending on implementation there is also USB host ontroller in TBT 	 best price, best usability lock of system and portreplicator together no issues with additional drivers, no PXE boot limitations Powermanagement features 	USB-C offers via alt mode more possible protocoll options (MHL3; TBT, DP, HDMI) but those needs to be implemented in system Thus, could be more confusing
	►WIN 10	Deep integration in WIN10		Independent of OS	
Cons	 ▶ not released for multivendor usage ▶ Limited MAC spoofing 	 ► USB compression ► slightly lower video quality ► driver still needed 	 Expensive, if no USB-Host implemented, no USB C devices connectable 	 Bulky and space consuming products related to limited number of devices only No multivendor approach 	