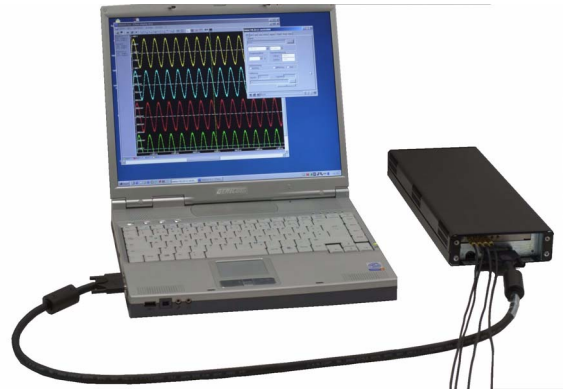


## **PC-Card/ExpressCard - Docking Station**

- **Mobile Instrumentation for Notebooks**
- **Available for 3 up to 13 PCI Cards**
- **Available for 3 up to 16 PCI Express Cards**
- **PCCard/ExpressCard/Thunderbolt II connector**
- **PCI/PCI-Express adaptor card as option**
- **Capable of hot-plugging**
- **Runs with Windows XP/Vista/Windows 7/Windows 8/Windows 10 (32 bit and 64 bit)**
- **PCI Express Docking Stations run with Linux 32 bit and 64 bit**
- **Software transparent**



### **General Information**

The PCI and PCI Express docking stations allow to use all Spectrum PCI boards and PCI Express boards totally hardware transparent with a standard notebook. The high-end instrumentation boards are placed in an external docking station that is connected to the notebook via an integrated PC-Card or ExpressCard interface. The docking station is a good alternative to complete portable PC systems at reasonable costs especially if a notebook is already existing. The docking station is also a good solution to use the instrumentation system with different notebooks.



Programming of the Spectrum boards is done with the existing drivers. After the installation of an additional driver for the docking station there is no extra step necessary for programming the boards. The connection is done totally hardware transparent.

Extra cooling fans are included in the docking station to keep the correct temperature.

### **Compatibility**

All Spectrum PCI boards and all Spectrum PCI Express boards work together with the docking stations. It is possible to use up to 13 PCI boards or 16 PCI Express board in the external box. The docking station works together with the Spectrum boards under Windows and Linux.









### **Technical Data**

OS compatibility	Windows XP, Windows Vista, Windows 7 (32 bit and 64 bit). PCI Express Docking Stations run with Linux 32 bit and 64 bit	Cable	1 m connection cable included
MTBF	25.000 Hours	Operating Temperature	0° up to 50°

	<b>Slots (full length)</b>	<b>Size (W x D x H)</b>	<b>Weight</b>	<b>Cooling fan</b>	<b>Power supply</b>	<b>Interfaces</b>
DOCK3PCI	3 PCI	483 mm x 450 mm x 178 mm	12.0 kgs	2	Internal 230 V AC	ExpressCard, CardBus, PCI, PCIe1
DOCK13PCI	13 PCI	483 mm x 450 mm x 178 mm	12.0 kgs	2	Internal 230 V AC	ExpressCard, CardBus, PCI, PCIe1
DOCK3Exp	3 PCI Express	371 mm x 110 mm x 200 mm	3.2 kgs	2	Internal 230 V AC	ExpressCard, Thunderbolt II, PCIe4
DOCK7Exp	7 PCI Express	483 mm x 450 mm x 178 mm	12.0 kgs	2	Internal 230 V AC	ExpressCard, PCIe4
DOCK16Exp	16 PCI Express	483 mm x 508 x 178 mm	13.0 kgs	4	Internal 230 V AC	PCIe8.

## Bus Interface Options

Each docking station comes with one of the following bus interfaces. Please see the order information below for the different order numbers. It is possible to order additional separate bus interfaces to use one docking together with different systems. By ordering a docking station with ExpressCard together with a separate PCI Express host card it is per example possible to use the instrument together with a notebook as well as with a desktop system.

Interface		Order suffix	Suitable for	Technical Data	
PCCard		-Card	all PCI docking stations	Interface type PCI Transfer Speed PCI Busmaster PCI specification	PCCard/CardBus 32 Bit @ 33 MHz capable Revision 2.2
ExpressCard34		-E34	all PCI docking stations	Interface type PCI Transfer Speed PCI Busmaster PCI specification	ExpressCard 34mm 32 Bit @ 33 MHz capable Revision 2.2
ExpressCard54		-E54	all PCI docking stations	Interface type PCI Transfer Speed PCI Busmaster PCI specification	ExpressCard 54mm 32 Bit @ 33 MHz capable Revision 2.2
PCI 32 bit host		-PCI32	all PCI docking stations	Interface type PCI Transfer Speed PCI Busmaster PCI specification	PCI 32 bit ultra short length 32 Bit @ 33 MHz capable Revision 2.2
PCI Express x1 host		-PCIEx1	all PCI docking stations	Interface type PCI Transfer Speed PCI Busmaster PCI specification	PCI Express x1 slot 32 Bit @ 33 MHz capable Revision 2.2
ExpressCard34		-E34	3 and 7 slot PCI Express docking stations	Interface type Express Transfer Speed Busmaster Express specification	ExpressCard 34mm x1 lane (2.5 GB/s) capable Generation 1.1
PCI Express x4 host		-PCIEx4	3 and 7 slot PCI Express docking stations	Interface type Express Transfer Speed Busmaster Express specification	PCI Express x 4 slot x4 lane (10 GB/s) capable Generation 2
PCI Express x8 host		-PCIEx8	16 slot PCI Express docking stations	Interface type Express Transfer Speed Busmaster Express specification	PCI Express x 8 slot x8 lane (20 GB/s) capable Generation 2 (Generation 3 upon request)

## Order information

### Versions

	Box Code	ExpressCard 34 mm	ExpressCard 54 mm	Thunder-bolt II	PCI Express Card	PCCard	PCI Host-Card	
3 Slot PCI Version <sup>(2)</sup>	DOCK3PCI-xxx	xxx-E34	xxx-E54	n.a.	xxx-PCIEx1	xxx-Card	xxx-PCI32	price
13 Slot PCI Version <sup>(2)</sup>	DOCK13PCI-xxx	xxx-E34	xxx-E54	n.a.	xxx-PCIEx1	xxx-Card	xxx-PCI32	and
3 Slot PCI Express <sup>(2)</sup>	DOCK3Exp-xxx	xxx-E34	n.a.	xxx-TB2	xxx-PCIEx4	n.a.	n.a.	availability
7 Slot PCI Express <sup>(2)</sup>	DOCK7Exp-xxx	xxx-E34	n.a.	n.a.	xxx-PCIEx4	n.a.	n.a.	upon
16 Slot PCI Express <sup>(2)</sup>	DOCK16Exp-xxx	n.a.	n.a.	n.a.	xxx-PCIEx8	n.a.	n.a.	request
Product Code	The product code is built by the order code and one of the available the interface options. Example: a 3 slot PCI Express docking station with ExpressCard 34 interface would have the product code: DOCK3Exp-E34.							
Delivery Content	Delivery consists of the selected docking station together with the specified bus interface, power supply, 1 m cable, documentation and drivers. The Spectrum instrument is mounted and calibrated inside the docking station.							

### Host cards

Order no.		
DOCKxPCI-PCI32 <sup>(2)</sup>	Additional 32 bit/33 MHz PCI host card for all PCI Docking Stations	price
DOCKxPCI-PCIEx <sup>(2)</sup>	Additional x1 PCI-Express host card for all PCI Docking Stations	and
DOCKxPCI-E34 <sup>(2)</sup>	Additional ExpressCard 34mm host card for all PCI Docking Stations	availability
DOCKxPCI-E54 <sup>(2)</sup>	Additional ExpressCard 54mm host card for all PCI Docking Stations	upon
DOCKxPCI-Card <sup>(2)</sup>	Additional PCCard host card for all PCI Docking Stations	request