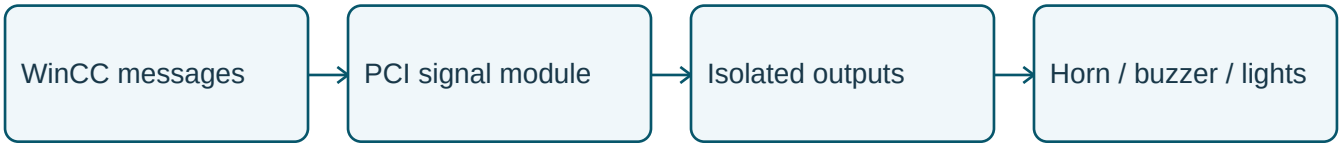
6DS1916-8RR

01 / System identity and preparation

Siemens 6DS1916-8RR is a PCI signal module for PCS 7/TM-OS and PCS 7-OS operator stations. It controls up to three external signaling devices, such as horns, buzzers or lights, and provides three additional binary inputs. A 32-bit PCI bus slot with 5 V signaling is required; the module cannot operate in a 3.3 V PCI slot. The configuration is local to each computer and is not transferred automatically by project duplication.



Preparation priorities

Host compatibility	Check a free 5 V PCI slot, card product status and compatible station operating system.
Software relationship	Match the WinCC/PCS 7 version and signal-module driver.

Guide boundary

This Apter Power guide organizes preparation and acceptance checks. Apply the manufacturer instructions and approved site procedure for detailed wiring, mounting, configuration and functional testing.

Application boundary

These functions apply to the 5 V PCI signal module in a supported WinCC/PCS 7 operator-station configuration. Match product status, operating system and driver before installation.

Product and installation enquiries

sales13@apterpower.com | +86 18030235313

Apply manufacturer instructions and approved site procedures.

02 / Configuration review before service

Host compatibility	Check a free 5 V PCI slot, card product status and compatible station operating system.
Software relationship	Match the WinCC/PCS 7 version and signal-module driver.
External wiring	Check the 25-pin signal assignment, acknowledgment circuit and protected 24 V supply.
Functional tests	Test output 1, output 2, output 3, acknowledgment and watchdog separately.

Check the PCI slot

Use a 5 V, 32-bit PCI slot. A 3.3 V slot is not suitable.

Confirm product status

Check the card label and required ES status for the installed WinCC signal-module implementation.

Configured system behavior

The hardware watchdog is retriggered cyclically by WinCC Runtime through the driver. If retriggering stops, for example because the computer fails, the watchdog triggers the configured alarm. Audible signals can be acknowledged through software or an external hardware acknowledgment button. The external function signals use isolated relay contacts or optocouplers, and the externally supplied 24 V DC circuit requires customer-provided 1 A protection.

Mismatch decision

Resolve a different catalog marking, interface, software requirement or installed configuration before proceeding. Physical similarity alone does not establish an approved replacement.

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03 / Hardware and interface checks

Match the driver

Install the driver appropriate to the operating system and WinCC/PCS 7 version.

Protect external circuits

Apply the required 1 A protection to the externally supplied 24 V DC signaling circuit.

Key hardware references

Bus interface	32-bit PCI, 5 V slot
External signaling outputs	Up to 3
Additional binary inputs	3
Watchdog	Hardware timer retriggered by WinCC Runtime

Configuration and service context

The front 25-pin Sub-D connector carries the signaling and watchdog functions; the 9-pin connector is not used for this application. Message classes and signal tags are assigned to the three physical outputs in the horn configuration. The module requires a suitable product status, such as ES4 or later, and a driver matched to the operating system and WinCC release. Commissioning should test each output, acknowledgment path and watchdog response independently.

Preserve the connection record

Photograph and label the affected connections before disconnection. Retain the original routing, module positions and identification with the work order, and compare the restored installation against that record.

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04 / Commissioning and diagnostic decisions

Keep local configuration

Configure each computer independently; project duplication does not copy the signal-module settings.

Test all alarm paths

Test the three outputs, hardware acknowledgment and watchdog before handing the station back to operations.

Acceptance checkpoints

Before energization	Match the WinCC/PCS 7 version and signal-module driver.
Configuration review	Check the 25-pin signal assignment, acknowledgment circuit and protected 24 V supply.
Functional release	Test output 1, output 2, output 3, acknowledgment and watchdog separately.

Are the settings of 6DS1916-8RR copied by project duplication?

No. The signal module must be configured separately on each computer, including the output and message assignments.

Abnormal result

If diagnostics, communication or functional response differ from the approved baseline, stop the release and resolve the configuration or installation issue. Do not bypass an interlock or protective function to obtain a passing test.

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05 / Service record and technical references

Lifecycle and support

The manufacturer lifecycle phase is End of Product Lifecycle. Plan service against the installed operator-station hardware and supported software configuration.

Technical basis

Siemens WinCC/Options for Process Control, A5E50503017-AA, 11/2020; Siemens 6DS1916-8RR product information.

Applicability

These functions apply to the 5 V PCI signal module in a supported WinCC/PCS 7 operator-station configuration. Match product status, operating system and driver before installation.

Related portfolio references

Siemens 6ES7417-4XT05-0AB0

Siemens 6ES7412-2XJ05-0AB0

Siemens 6ES7318-3EL01-0AB0

Siemens 6ES7653-2CC00-0XB0

Navigation only. These listings are not confirmed replacements, compatible accessories or included items.

Handover record

Retain the complete fitted marking, hardware/software revision where applicable, connection record and accepted test results. Confirm separate accessories and documents in the quotation.

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