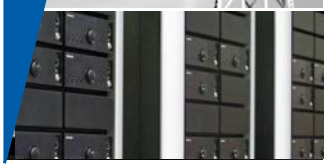

PARK AIR
A NORTHROP GRUMMAN COMPANY

Park Air S4 IP Controller

For voice over IP remote control

Introduction

Park Air S4 IP controller delivers comprehensive remote operation of Park Air ground-to-air radios from single or multiple user positions.

The S4 IP controller includes a touch screen, dual headset sockets and integrated loudspeaker. The S4 IP controller is ideally suited for primary use, in small airports, as a fail-safe operation for large ATC systems, in airline dispatch offices and by emergency services.

The operator accesses all controls via a user configurable touch panel that is optimised for use in a control room. Controls via the intuitive graphical user interface include programming and recall of radio channels, monitoring of radio status and main/standby change-over.

The S4 IP controller uses a role based configuration whereby a user can log in as a particular role to carry out tasks. Roles are set up by an administrator; each role is configured to make specific channels and controller capabilities available.

In the simplest configuration, a single S4 IP controller can be connected directly to a single radio channel providing full operational control. For more complex environments, up to ten S4 IP controllers can be connected to up to thirty two radios combined into main standby channels. Main/standby radio pairs are configured for automatic change-over with a manual override available to the operator. The S4 IP controller allows the channel frequency to be changed from a single action, thus ensuring all radios that comprise a channel are updated simultaneously.

Any one S4 IP controller can access up to eight radio channels; channels can be simultaneously selected for receive monitoring and separately selected for transmission, allowing reduced staffing during quieter periods. Additionally, operators can control key radio parameters such as transmitter power and receiver squelch threshold. Where multiple S4 IP controllers are used, each operator will receive relevant channel status indications such as “Busy” or “Ready”.

The S4 IP controller, along with all Park Air radio products, utilises voice over internet protocol (VoIP) in accordance with the international standard for air traffic management, ED-137.

The S4 IP controller is based around a solid state industrial PC with integral touch screen. It is suitable for integration into a console, free-standing on a desktop or a variety of standard VESA mounting options. The integral design includes two front panel mounted headset sockets as support for two headsets. This allows the activity to be simultaneously monitored or controlled by a supervisor or trainer. An external foot switch PTT can be connected to the unit. The S4 IP controller is provided with dual dc inputs to allow main and standby power sources.

Features

- Full function control of up to eight radio channels per controller
- Integration of up to ten controllers per radio
- Colour touch screen operation
- Desktop, console or VESA mounted
- Dual Lemo headset sockets
- Integrated loudspeaker

General characteristics	
User interface	Touch panel
Screen type	Backlit TFT LCD colour display
Touch screen	Resistive
Screen size (diagonal)	8 inches
Resolution	800 x 600 pixels
Contrast	Typically 500:1
Operating system	Windows embedded
Clean screen mode	Disables the touch screen whilst the screen is cleaned
Housing	Console, free-standing on desktop or a variety of standard VESA mounting options
Dimensions	Overall dimensions (without base): 294 mm wide, 204 mm high, 48 mm deep
Weight	
Desktop version	3 kg
Console version	2.5 kg
Temperature range	
Operating	0°C to +45°C
Storage	-10°C to +60°C
Humidity	5% to 90% non-condensing
Altitude	
Operating	5,000 m
Transport	15,000 m
Audio/PTT	
Audio interface	Two front panel self-locking 10-way Lemo headset connectors (for operator and trainer or supervisor) Headset connections also accessible on rear panel
Audio monitor/access	Multiple channels can be simultaneously selected for monitoring or full access
Loudspeaker	Integrated
PTT	Integrated into headset or available via foot switch
Power input	Supplied universal AC adapter plus facility for standby DC supply (12 or 24 V DC)
Power consumption	Typically 15 W, maximum 36 W

Network/interface	
Interface to radio	10/100BaseTX
Number of ports	2
Network standard	ED-137
Part numbers	
Controller	
S4-IP	IP Controller
S4-A-IPDESK	Desk mounting kit for S4 IP Controller
S4-A-IPCONSOLE	Console mounting kit for S4 IP Controller
S4-O-IPDC24V	24 V DC input for S4 IP Controller
Accessories	
S2-HSS4	Headset for use with S4 IP Controller
S2-HSS4SEN	Sennheiser HME46 headset for use with S4 IP Controller
S2-FOOTS4	Footswitch for use with S4 IP Controller
S2-MICHS4	Hand microphone for use with S4 IP Controller

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Note:

The information and specifications provided in this document represent the minimum performance of Park Air Systems' equipment. Park Air Systems reserves the right to change the specifications of its equipment from time to time in its discretion without any notice. It is the customer's responsibility to request and obtain the latest applicable specifications from Park Air before placing orders for Park Air Systems' equipment. Neither this document, nor any of the information presented in it, should be regarded as an offer or commitment or a representation on the part of Park Air Systems (or any other person) to enter into a contractual arrangement. For further details please see the Northrop Grumman website.