

RRS

Reader Redundancy Switch



Product Description

Modern high-speed electronic tolling systems require a high degree of reliability. System downtime has the potential to impact revenues and customer relationships. Minimizing downtime is a priority for system operators or anyone who has key performance indicators that must be achieved.

Reader Redundancy Switch (RRS) offered by Star Systems International addresses this performance reliability requirement. RRS allows two high speed tolling readers to be connected to the same set of antennas. In this configuration, one reader is actively reading transponders while the second reader stands by ready to take over operations in the event that performance of the active reader becomes compromised.

It is easily controlled remotely from an external control system using a TTL input signal. Should the performance of the active reader become compromised, the TTL input signal will switch the RF output from the active reader to the RF output from the standby reader. Low insertion loss means that the impact to the RF signal from the reader is negligible. The rugged IP66 design of the RRS makes it ideal for harsh outdoor environments.

RRS allows customers to maintain a high degree of uptime and system availability. This ensures that KPI's are achieved and customers are satisfied.

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RRS

Specifications

Dimensions	100 x 25 x 20 mm (3.93 x 0.98 x 0.79")
Frequency Range	DC - 1000 MHz
Configuration	4P2T Reflective
Impedance	50 ohms nominal
VSWR	1.2:1 maximum to 500 MHz 1.3:1 maximum to 1000 MHz
Insertion Loss	0.5 dB maximum to 500 MHz 0.8 dB maximum to 1000 MHz
Isolation	70 dB minimum to 500 MHz 60 dB minimum to 1000 MHz
Switching Speed	10 milliseconds maximum
RF Input Power	10 Watts average maximum
Control	TTL "low" (0-0.8V) for COM to J1 TTL "high" (2.0-5.0V) fir COM to J2
DC Supply	+11 Vdc to +15 Vdc @ 360 mA maximum
DC Connector	Water-proof DE-9P
RF Connector	N-Type Female
Operating Temperature Range	-40°C to +85°C (-40°F to +185°F)
Environmental	IP66 rated

