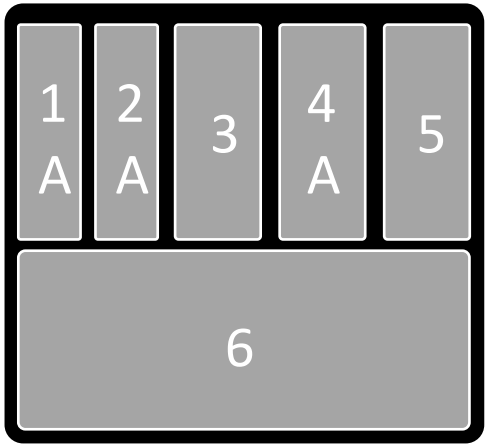
Active/IPICO UHF Mat/Side Antenna layout proposal V11

To convert from DF to UHF unplug 1A, 2A and 4A and replace it with 1B, 2B and 4B.

A



DF Card/Connector layout and identification

1A. DF RX Card Channel 1 – IP2902
2A. DF RX Card Channel 2 - IP2902
3. Octal – IP2916
4A. DF TX card – IP2905
5. Power supply - IP 0901-1
6. DF TX connectors and Ext power supply IN

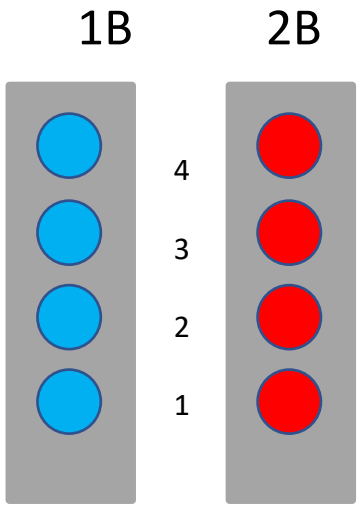
B

UHF Card/Connector layout and identification

1B. UHF TXRX card – IP2997
2B. UHF TXRX card – IP 2997
3. Octal – IP2916
4B. Blanking plate
5. Power supply IP 0901-1
6. Ext power supply IN

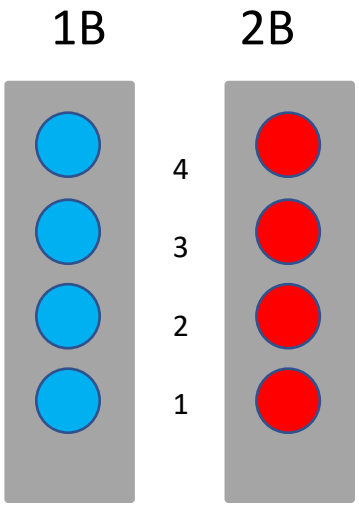
Caution: Never disconnect UHF antennas/cables when the reader is ON. Switch OFF or put the Quattro cards in SLEEP mode before disconnecting the antennas.
Don't use the reader with only antenna cables connected without connecting the actual antennas.

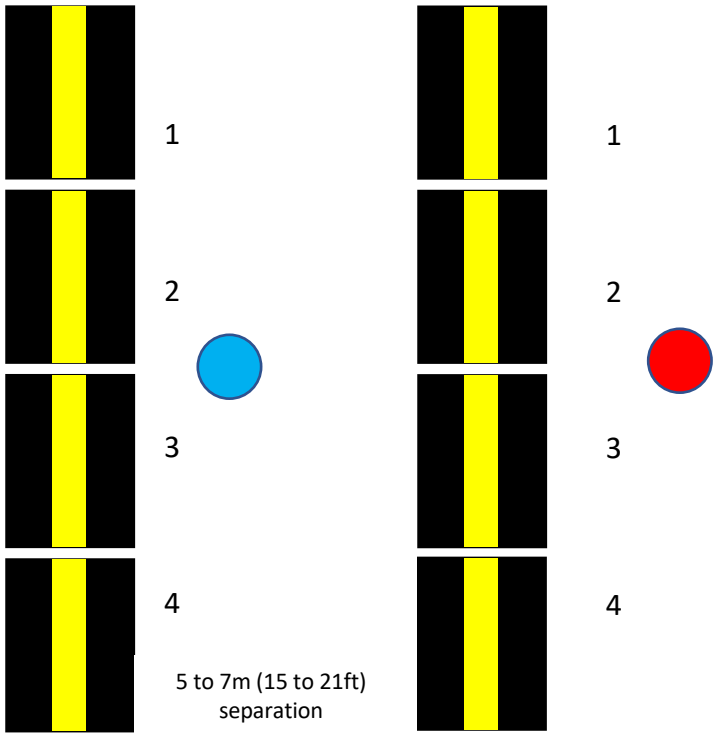
UHF SE with a narrow-read point (Typical small race)

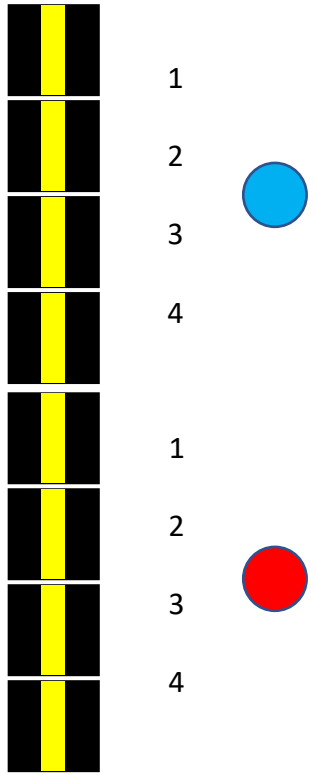


To get 5-7m physical separation of the 2x4m lines one can also use 2 set of the extended cable sets (IP2998-2)

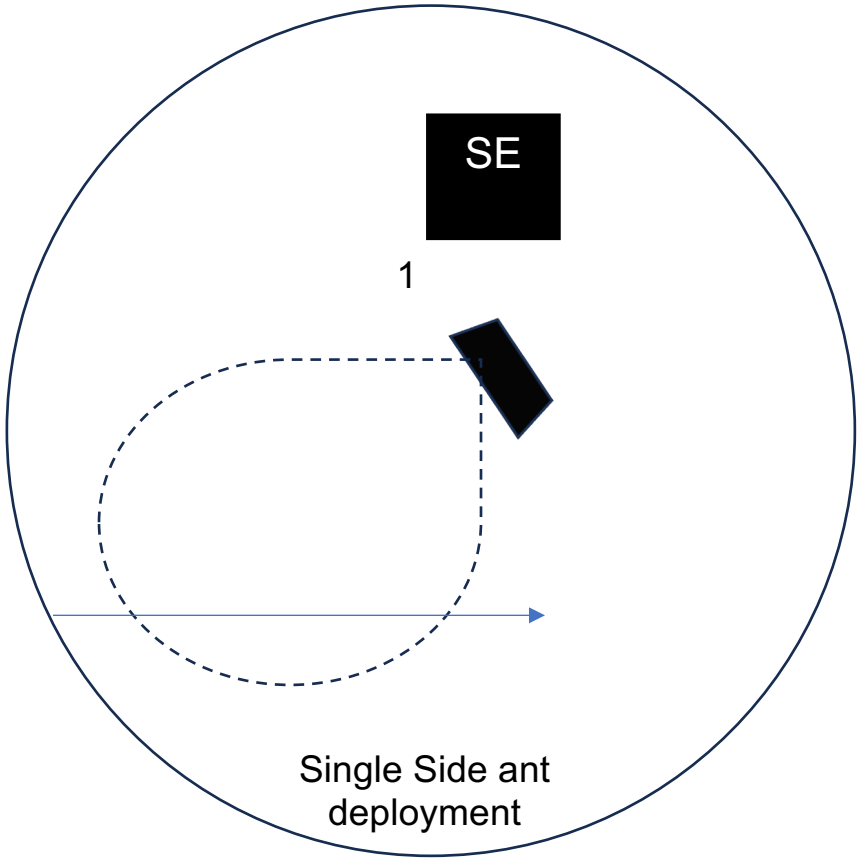
UHF SE with a wide-read point

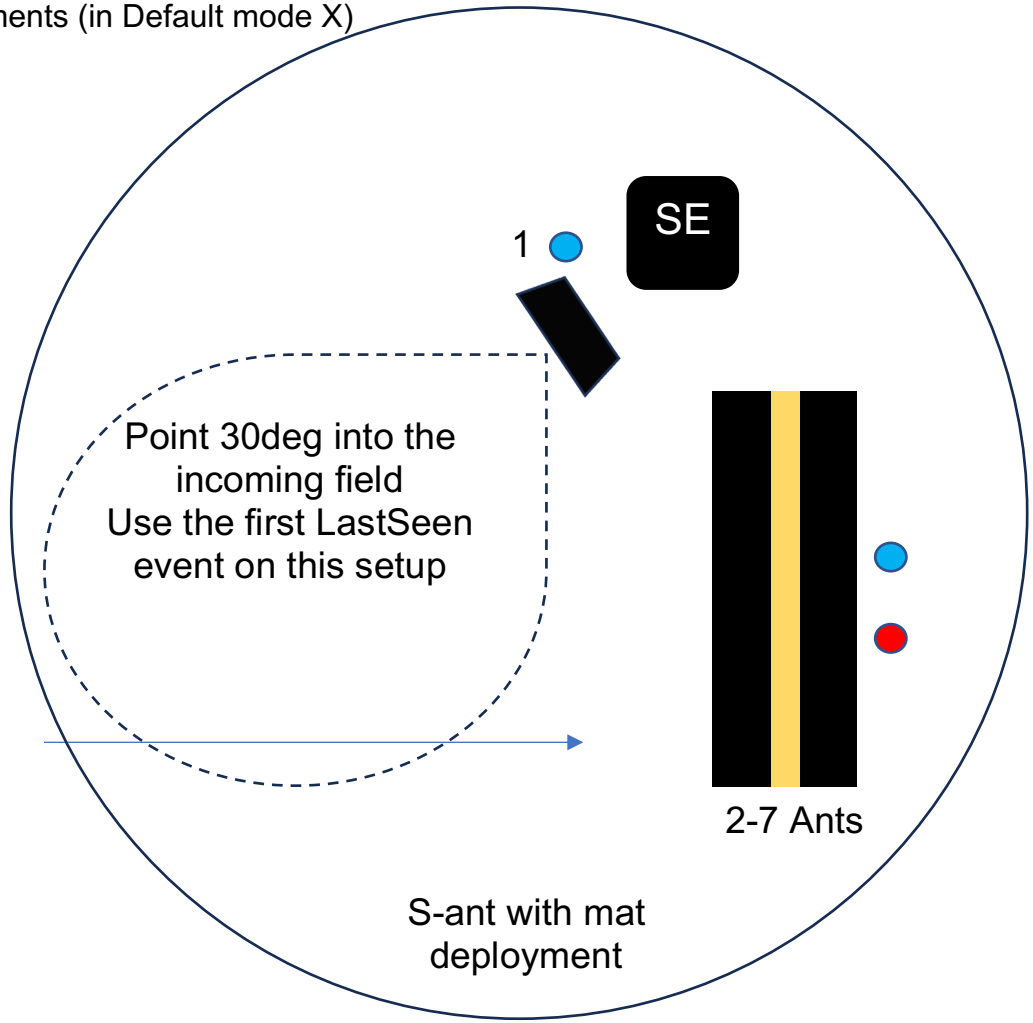


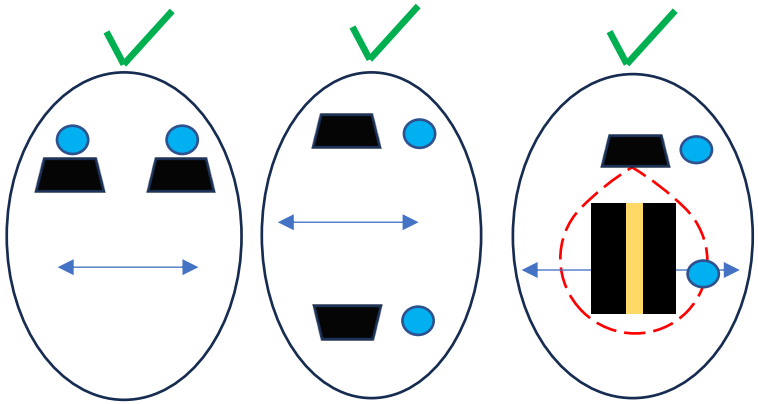




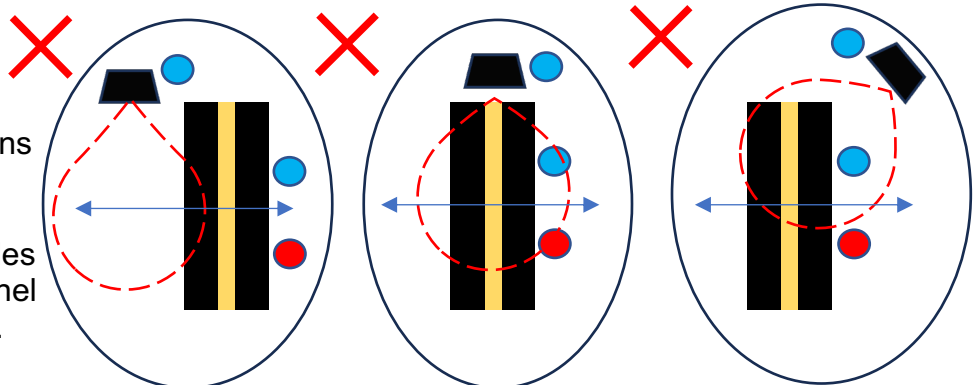
Side antenna deployments (in Default mode X)







BUT
These Configurations with 1 side ant overlapping 2-7 mat ants that includes mat of the 2nd channel are not preferred.



Homepage layout

Batter % full indicator	Ext power indicator	Race mode X, P, B or A	LAN (L#) & Server (R#) Connections

Event name(code) / Point name

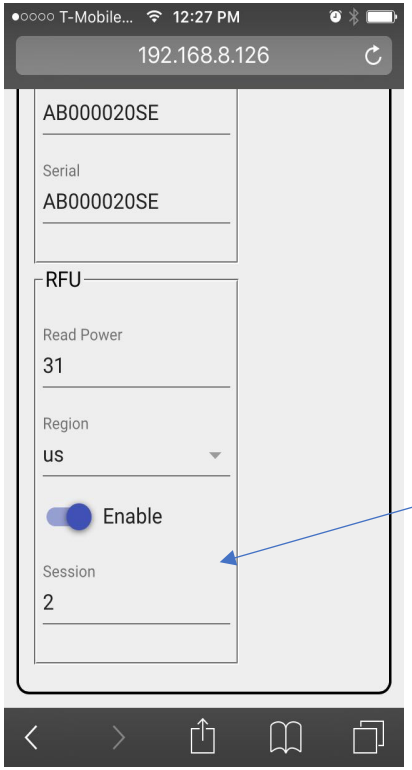
The Date stamp and Local IP Address will toggle every 5s if time is set manually on reader.
As soon as reader is synced to a local computer or internet, then only the IP address is shown. (VPN IP optional)
A line under the IP address indicates that it is a STATIC adr

Time Source (**M**an, **L**oc or **N**etw)	Time HH: MM: SS

Total # tags / Unique # tags read

Last BiB ID read (max 6 digits)	# of functional antennas detected by reader	RF output

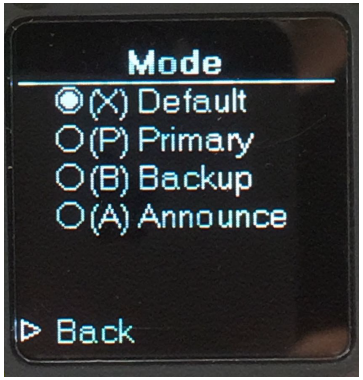
Sample Home screens



Select correct Race mode via reader front panel keys/menu
Or
in Setting on the reader web page

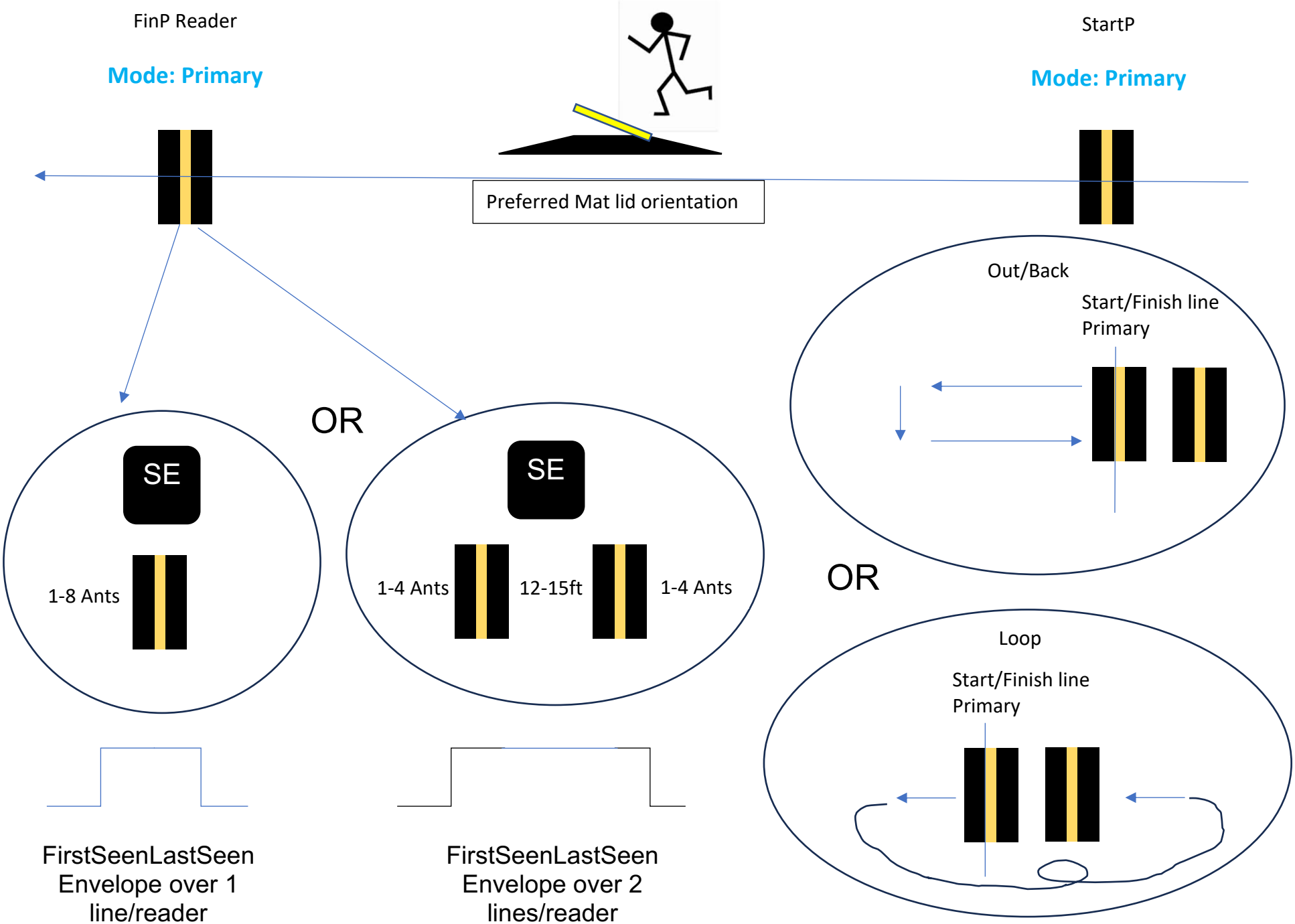
Change the mode setting according to the reader layout schemes on next page below

Available modes:
0 = Default
1 = Primary
2 = Backup
3 = Announce

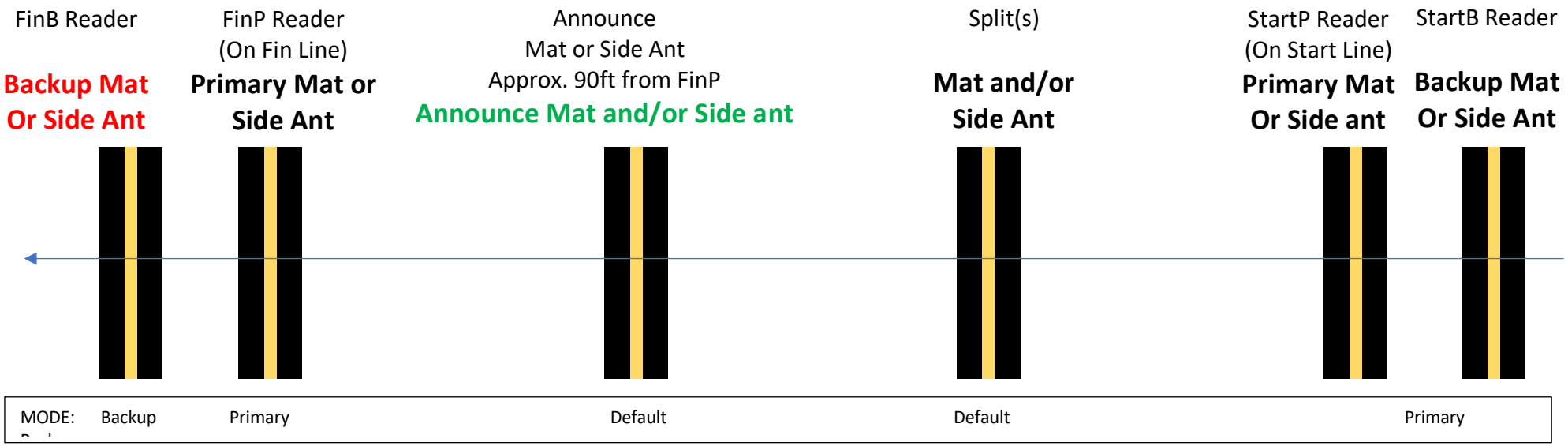


When you have a cluster of 2 readers at a read point always make sure its set to Primary and Backup
Never setup 2 readers that are in the cluster
Primary/Primary or
Backup/Backup combinations

1. For **small races <1000 runners** or **Single mat deployments (4-8m wide)** the proposed setup is as follows:



2. For **hi-density/large/Hi-performance races (8m+ wide) typically > 1000 runners** the proposed setup is as follows: (small races can use this as well)



NOTE:

1. **For 2 reader setup at a read point: ALWAYS set the readers to** Primary and Backup with a 5-7m (15-21ft) separation
2. Refer to Side antenna layout for correct deployments.