

We will present several results for maximal surfaces in a Lorentzian product manifold $\mathbb{R} \times M$. The main purpose is to characterize the slices as complete maximal surfaces satisfying a comparison between the growth of length of the gradient of the height function and norm of the shape operator and additional bound assumptions. Several Calabi-Bernstein results are also shown. Finally, examples of maximal surfaces in $\mathbb{R} \times M$ are explained to emphasize the necessity of the assumptions.